

EXHIBIT A

Curriculum Vitae

Michael Adrian Brook

Address

Home:

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Ancaster, Ontario
Canada, L9G 4M4.
(905) 648-7361

Business:

Department of Chemistry
McMaster University, ABB 459
1280 Main St. W.
Hamilton, Ontario
Canada, L8S 4M1.
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FAX (905)-522-2509
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Web: www.chemistry.mcmaster.ca/silicone

Personal Data

Date of Birth:

November 2, 1955

Country of Birth:

Canada

Citizenship:

Canadian

Marital Status:

Married, 3 children.

Education

ETH-Zürich (Swiss Federal Institute of Technology)

1984-85

Postdoctoral Fellowship, Supervisor: Prof. Dr. D. Seebach

McGill University, Ph.D. (Dean's Honour List)

1983

Supervisor: Prof. T.H. Chan (conferred 1984)

Thesis: The Trimethylsilyl Group in Organic Synthesis

University of Toronto, Honours B.Sc.

1978

Supervisor: Prof. M. Thompson, 4th year project

Thesis: The Oxidation Products of 8-hydroxyquinoline with Ceric Ammonium Nitrate

University of Sussex, UK, Chemistry, first year

1974

Current Status at McMaster

Professor of Chemistry, tenured.
Associate Member, Department of Pathology and Molecular Medicine (1993-2002).
Associate Member, Chemical Engineering (1999-2004).

Professional Organizations

Member, Chemical Institute of Canada
Member, American Chemical Society
Member, McMaster Institute for Polymer Production Technology
Member, Brockhouse Institute for Materials Research (McMaster)

Employment History

McMaster University, Professor (Promoted July 1997)	1997-
present	
McMaster University, Associate Professor (Promoted July 1991)	1991-97
McMaster University, Assistant Professor (Tenured July 1990)	1985-91
Prof. W.H. Rapson, University of Toronto	1979
<i>Determination of potential mutagenic products of the aqueous chlorination of wood pulp.</i>	
Dr. O. Merecz, Ontario Ministry of the Environment	1978,
1977	
<i>Analysis of polycyclic aromatic hydrocarbons by capillary GC and HPLC.</i>	
Mr. T. Segeren, Chevron Asphalt, Calgary	1976
<i>Analysis of aqueous asphalt emulsions.</i>	

Consultancies

Silicone Injection Molding Company, name withheld	2006
Biomaterials Company, name withheld	2005
Jenner and Block, Chicago	2005
Innovalight, St. Paul, MN	2004-
2005	
Inamed CA	2003-
2005	
Digital Persona	2004
Vision Company, name withheld	2003-
2004	
MDS-Sciex, Toronto	2003-
2004	
Dow Corning Corporation, Midland MI	2003-
2004	
Federal Government of Canada (Justice, Health)	2003,
2004	
Kent and McBride, Philadelphia	2003
GenoRx, CA	2003
Strategic Analysis International, Philadelphia	2003

Surtec, Valparaiso, ILL	2003
Eisenmann, Crystal Lake ILL	2002
Shook, Hardy and Bacon, Kansas City	2001-
2002	
Teltech (now Intota/Sopheon)	1993-
Stroock and Stroock and Lavan, New York	2001
Genencor, Palo Alto	2001
Sasol, Austin TX	2001
Arkmount Systems, Toronto	2000
Xanthon, NC	2000
Gillette, Boston	2000
Shapiro, St. Paul MN	2000
Hatch and Associates, Shanghai	2000
General Electric, Waterford NY	2000
CalEnergy, Calipatria CA	2000
Ballard Power Inc., Vancouver	2000
Dow Corning Corporation, Midland MI	1990-
2000	
Jones Rogers, Toronto	1997-
2000	
Kent and McBride, Philadelphia	1999-
2001, 2003	
Trojan Technologies, London ON	1998-
2000	
CK Witco, Sistersville WV	1999
FEI Technologies, Princeton NJ	1999
Unilever, Port Sunlight UK	1997-98
Tel-Tek/Norsk Hydro, Porsgrunn Norway	1998
Strook and Strook and Lavan, NYC	1997
Eastman Chemical, Kingsport, Tennessee	1997
Albemarle Corp., Baton Rouge Louisiana	1996
Delphax, Mississauga ON	1996
Magnifoam, Barrie ON	1996-97
Lotek, Markham, ON	1995
Price Waterhouse, (for AMT), Toronto	1995
IVACS	1995
Ittron, Waseca MN	1994
Trace Sciences	1993
Abitibi Price, Canada	1991-92
S&S Productions	1990
C.I.L. (now I.C.I. Canada)	1988
Galen Pharma (now Biovail, Trimel Lifesciences)	1988-90

Scholarly and Professional Activities

- ACS Award Committee, Member (specific award is confidential) 2005-2010
- Silicon Chemistry* (a journal), Regional Editor, The Americas, 2000-
Innovalight, St. Paul, MN, Scientific Advisory Board, Member 2004-
5th Polymerization in Dispersed Media, Lyon France (2004) 2003-4
Member, International Organizing Committee
Scientific Advisory Board, Ian Wark Research Institute,
Member, University of South Australia 2002-4
The 3rd International Workshop on Organosilicon Polymers (2003) 2002-3
Member, Organizing Committee, June 23-25, 2003; Rensselaer Polytechnic
Institute, Troy, NY
Formulation Days: Silicones and Fluorocarbons, Lyon France, Dec. 9, 10, 2002
2002
(Journées formulation silicones et fluorés), Member, Organizing Committee
Perspectives on Silicon, Ian Wark Research Institute, Adelaide, July 15-19, 2002.
Member, Advisory Board, University of South Australia 2002
Visiting Professor, Ian Wark Research Institute, University of South Australia 2002
Visiting Professor, Unité Mixte CNRS BioMérieux Lyon, France 2000
Visiting Scientist, Trojan Technologies, London Ontario 1999
Can. J. Chem. Special Issue in honour of Adrian Brook, (pub. Nov. 2000),
Guest co-editor 1998-
- 2000
XXX Organosilicon Symposium, Co-Chair 1997
Visiting Professor, Université de Bordeaux, Bordeaux, France 1996
Visiting Professor, Université Paul Sabatier, Toulouse, France 1996
Visiting Professor, University of Amsterdam 1992-93
74th CIC Chemistry Conference
Program Co-Chair 1990-91
Abstract Editor 1990-91
Symposium Organizer 1990-91
Conference Chairman, Southwestern Ontario
Undergraduate Chemistry Conference 1987
- Journal Referee (in order of frequency)**
- 1) *Silicon Chemistry*
 - 2) *Journal of the American Chemical Society*
 - 3) *Langmuir*
 - 4) *Canadian Journal of Chemistry*
 - 5) *Chemistry of Materials*
 - 6) *Biomaterials*
 - 7) *Organometallics*
 - 8) *Organic Letters*
 - 9) *Applied Surface Science*
 - 10) *Journal of Polymer Science Part A: Polymer Chemistry*
 - 11) *Applied Organometallic Chemistry*

- 12) J. Chem. Soc., Dalton Transactions
- 13) AIChE Journal
- 14) Science
- 15) Journal of Materials Chemistry
- 16) Artificial Organs
- 17) Journal of Inorganic Biochemistry
- 18) Australian Journal of Chemistry
- 19) Tetrahedron Letters
- 20) Journal of Organic Chemistry
- 21) Journal of Organometallic Chemistry
- 22) Synlett
- 23) Inorganica Chimica Acta
- 24) Chemische Berichte
- 25) Journal of Physical Organic Chemistry
- 26) Tetrahedron Computer Methodology

External Grant Reviews (in order of frequency)

- 1) NSERC Research Grants
- 2) NSERC Equipment Grants
- 3) Canadian Foundation for Innovation Review Chemistry Panel CFI Panel (Nov. 2001)
- 4) Canadian Institutes for Health Research grant review
- 5) NSERC Industrial Partnerships Program (CRD/IOR)
- 6) NSERC Strategic Grant
- 7) National Science Foundation (USA)
- 8) American Chemical Society, Petroleum Research Fund (PRF)
- 9) Killam Fellowship
- 10) US-Israel Binational Science Foundation

Government Panels

Expert Advisory Panel on Breast Implants, Therapeutic Products Directorate, Medical Devices Bureau, Health Canada, member, 2002
Scientific Advisory Panel on Breast Implants, Therapeutic Products Directorate, Medical Devices Bureau, Health Canada, member, March 2005
Expert Advisory Panel on Breast Implants, Therapeutic Products Directorate, Medical Devices Bureau, Health Canada, member, public panel, Sept. 2005

Areas of Interest

Organosilicon Chemistry

Silicon-biopolymer copolymers, Organofunctional silicones, Silica surface modification, Silicone Polymers,

Protein entrapped in silica and silicones (immobilized enzymes), Silane coupling agents,

Reactive Silicon Species

Other Interests

Ocular Materials, Oral Vaccines, Functional Colloids, Synthesis of Novel Polymers,
Synthetic Organic Chemistry

Honours

Killam Fellowship (Canada Council of the Arts)	2003-
2004	
President's Award for Instruction (McMaster)	2003
McMaster Student's Union Teaching Award (Faculty of Science)	2002,
1997	
Invited Professor, Ian Wark Research Institute, University of South Australia	2002
Gold Key Honour Award, McMaster University	2000
Invited Professor, Unité Mixte CNRS BioMérieux Lyon	2000
Nomination for McMaster Students Association Teaching Award	2001,
1999	
	1998, 96,
94	
Synergy Award, Conference Board of Canada, NSERC	1996
with Mark R. McDermott and Connaught Laboratories, one of 4 annual Canada-wide awards	
(Award given for Industry-University collaboration)	
Invited Professor, Université de Bordeaux, Bordeaux, France	1996
Invited Professor, Université Paul Sabatier, Toulouse, France	1996
Invited Professor, Universiteit van Amsterdam, Netherlands	1992-93
Dutch National Science Foundation Foreign Researchers Award	1992-93
(NWO Bezoekersbeurs)	
IUPAC Travel Award	1991
Ichikizaki Travel Award for Young Chemists	1988,
1990	
NSERC Canada University Research Fellowship	1985-95
NSERC Canada Postdoctoral Fellowship	1984-85
NSERC Canada Postgraduate Scholarship	1979-83
T. Sterry Hunt Award (McGill)	1979-80
Society of Chemistry and Industry Gold Key	1978
Gollop Award in Chemistry (Toronto)	1978
S.H. Jane Silver Medal (Toronto)	1977
ACS Undergraduate Award in Analytical Chemistry	1977
Ontario Scholar	1974

CO-WORKERS

M.Sc. students

STUDENT	YEAR(S)	TOPIC	CURRENT
STATUS			
Lihua Liu	2004	Biopolymer modified silicones	
Lucy Ye (with Bob Pelton, Chemical Engineering)			
	2004	Bicompatible TiO ₂	

Hazem Amarne	2004	Boronates as structuring agents	
Weian Zhao	2004	Functional Colloids	
Dave Thompson	2003-05	Tethered nucleotides	
Sanela Martic	2003-05	<i>An Investigative Study of Silicon-Based</i>	M.Sc.,
Ph.D. Queen's			
		<i>Materials as Alternative Matrices for Maldi-ToF Applications</i>	
Kui Guo	2001-04	Protein in Sol Gel Silica	
Forrest (Li) Gan	2001-03	Silicone peptides	Ph.D.,
McMaster			
Cindy Liu	2001-03	Tris-Modified Silicone Surfactants and Their	
	Angiotech	Interactions with Proteins	Vancouver,
Scientist			
Paul Zelisko	1999-01	Silicone-protein copolymers	Ph.D.,
McMaster			
Amro Ragheb	1999-01	Anti-fouling coatings	Ph.D.,
McMaster			
David Valentini	1994-96		
	Scientist, Glaxo		
<i>The coupling of synthetic and biological polymers: silicone - starch composites</i>			
David Bayles	1994-96	<i>Towards an α-silyl cation</i>	Ph.D.,
McMaster			
Grant Crowe	1992-94	<i>The β-effect of extracoordinate silanes</i>	Scientist,
Apotex			
Tom Stefanac	1992-94		Scientist,
Allelix			
<i>Silane based radical polymerization: functionalized homopolymers and copolymers</i>			
Mike Roth	1992-94		Scientist,
PMC Film			
<i>Controlled formation of new Si-based polymeric systems</i>			Tottenham,
Ont.			
Graham McGibbon	1989-91		Scientist,
Boeringer-			
<i>Gas phase measurements of the β-effect for vinyl cations</i>			Ingelheim,
Montreal			
Weifeng Yu	1988-91		Scientist,
EPA			
<i>The roles of ligands on silicon</i>			
Oakville			
Andrea Osterroth	1988-90	<i>Poly(methyl methacrylate) sterically stabilized with</i>	
<i>silicones</i>			
	(co-supervised with R..H. Pelton, Chemical Engineering)		

Thomas Sebastian Zenon	1987-89	<i>Polytrichlorosilylstyrenes</i>	Scientist, Environ.,
Burl. ON Mahmud Hadi	1986-88	The β -effect	MBA

Ph.D. students

STUDENT STATUS	YEAR(S)	TOPIC	CURRENT
Dave Thompson	2005-	Silicone-modified saccharides	
Forrest (Li) Gan	2003-	Stereoselective reduction	
Elodie Pacard	2002-05	Colloidal Silica Aggregates Joint with Christian Pichot, ENS-Lyon France	
Amro Ragheb	2001-05	Controlling Protein-Silicone Interactions	With
Poly(Ethylene Oxide)			
Paul Zelisko	2001-05	Silicone-protein copolymers	
Masaaki Amako	2001-04	Organometallics in silicones	
Mustafa Mohamed	1996-01	<i>Surface modification by silane photolysis</i>	
Sonya Balduzzi	1995-01	<i>Functional silane and cobalt protecting groups</i>	
Ahmed Alzamly	1999-00	<i>Silicone-protein copolymers</i>	withdrawn
Frank Laronde	1995-00	<i>C₂-symmetric Lewis acid catalysts: The role of imidazole in the stereoselective hydrosilylation of carbonyl compounds.</i>	Scientist MDS
		Proteomics	
Rodica Stan	1994-99	<i>Synthesis of novel organofunctional silicones and silanes for interface control</i>	Scientist, GE, WV
Vasiliki Bartzoka	1994-99	<i>Silicone-protein interactions</i>	Scientist,
Taro Chem..			
Mark Stradiotto	1995-99	<i>The dynamics and reactivity of η^1-indenyl complexes (co-supervised with with M. J. McGlinchey)</i>	Asst.
Prof. Dalhousie			
Paul Charpentier	1993-97	Supported Metallocene Polymerization Catalysts PDF Duke (co-supervised with with A. Hamielec, Chemical Engineering)	
Ralph Ruffolo	1992-97	<i>Silanes and allylsilanes as possible precursors for transition metal-stabilized silylium ions</i>	(co- M. Environment ON
supervised with with M. J. McGlinchey)			
Howard Ketelson	1992-96	<i>The colloidal stability and surface chemistry of Stöber silica</i>	(co-supervised with R..H. Pelton, Chemical Engineering) Scientist, Alcon

Courtney Henry Sheridan College	1990-94	Electrophilic additions, vinylsilanes	Prof.
Carol Dallaire MDS Laval	1988-92	<i>The β-effect for vinyl cations</i>	Scientist,
Melvin Farquharson	1985-86	Lewis Acids	Deceased

P.D.F.s

STUDENT STATUS	YEAR(S)	TOPIC	CURRENT
Rebecca Voß	2005		
Ferdinand Gonzaga	2003	Silicone surfactants	
Yan Gao	2003	Proteins in silica	
Dan Chen	2000-	Plasticized sol-gels	
Amro Ragheb	2005-	Fluorinated silicones	
Jian (Jack) Guo surfaces	2004-05		Biocompatible silicone
Zheng Zhang	2001-04		Proteins in silica
	PDF, U. Washington		
HongJian Tian	2001-04		Contact lens cleaning
	PDF Waterloo		
Hong Chen surfaces	2001-04		Protein compatible
	Assistant Prof.,		Wuhan University of
Technology			
Shouhai Gao	2001-01		Contact lens cleaning
Alexander Tseitlin Chemist,	1997-98	Wood-plastic composites	Research
			Siltech,
Toronto			
Gilles Sèbe	1996-97	Wood-polyolefin Composites	Assoc. Prof.,
Bordeaux			
Gang Hu	1995-97	Silicone Hydrophobes on Hydrophilic Polymers	
	Superior Coatings		Ltd.
Winnipeg.			
Jianxiong Jiang	1992-96	Silicone Rubbers	Scientist,
Chengdu			Silicone
			Research
Christine Gottardo	1995-96	Lab Manager and Paper silanization	Institute
			Asst. Prof.,
		Lakehead Univ.	

Christophe Le Roux Toulouse	1993-94	Radical Reactions of Hydrovinylsilanes,	CNRS,
C.-K. Yeom Membrane	1992-94	Pervaporation Membranes	Korean Company PDF,
Hari Gupta McMaster	1992-93	Silicone Membranes	PDF
Pankaj Modi McMaster	1991-92	Oligosilylstyrenes, composite membranes	PDF
Wei Li China	1991-92	Membranes from silicones	Scientist,
T. Mancilla-Percino CINVESTAS	1990-91	β -effect; Friedel-Crafts with ketones	Prof. Mexico City
Stefan Müller BASF	1988-89	The β -effect; Friedel-Crafts with ketones	Scientist, Germany.

Technicians

STUDENT STATUS	YEAR(S)	TOPIC	CURRENT
Renita D'Souza	2004		
Kui Guo	2001	Silica Sol Gels	
Cindy Liu	2000	Chelating silicones	
Tom Stefanac student	1994	Recycling silicone	see M.Sc.
Chunfeng Guo	1991-3	Coupling reagents, glass coatings Parkhurst Knitwear	

Summer Students/In Course Students

STUDENT STATUS	YEAR(S)	TOPIC	CURRENT
Aid Attic	2005	Silicones by enzymes	
Amélie Burleraux	2005	Non-bleeding silicones	
Jill Ranger student	2003-5	Proteins and silicones	4 th year
N. Oakley	2004	Sterically bulky silicones	
S. Krakar	2004	Non-leaching silicone gels	
L. Tran	2004	Enantioselective reduction	
Meghan Marshall	2003-4	Western Blots of Proteins on Silicone (with H. Sheardown)	2003
Lisa Wilkinson Queen's	2003-4	Silica aggregation	4th year student

Lee Freiburger student	2003-4	Metallomesogen synthesis	3 rd	year	
Renita D'Souza	2002-4	Silica formulations (done in school year AND summer)			
Mike Hrynyk summer)	2002-4	Proteins in silicone rubber (done in school year AND summer)			
Joanne Poloczek student	2003	Borosilylation (with Steve Westcott, Mt. Allison)	3 rd	year	
Stefanie Mortimer student	2003	Proteins on modified silica surfaces	4 th	year	
Aoife O'Carroll student	2003		3 rd	year	
Jonathan Schinkel Allison	2003	Metallomesogen synthesis	4 th	year	student Mt.
Susan Jo student	2003	Drug delivery from silicone elastomers	2 nd	year	
Cynthia Kwong summer)	2002-3	Cleaning contact lenses (done in school year AND summer)			
Ken Mak	2002-3	New silicone emulsions (done in school year)			
Allison Chapman	2002	Contact lens cleaning			
Stefanie Mortimer	2002	Proteins on modified silica surfaces			
Michele Riordon	2002	Silicone-protein conjugates			
Meaghan Walsh	2002	Sol-gel protein in silica			
Jannine Crowley	2001	Silicone Emulsions			
Meaghan Walsh	2001	Enzyme Emulsions			
Laveena Munshi School	2001	Chelating Silicones			Medical
Jannine Crowley	2000	Anti-fouling Coatings			
Ines Alonso Bilbao	2000	Silicones and Steric Stabilization			Ph.D.
Andre Lapierre Pittsburgh	2000	Enantioselective Reductions			Ph.D.
Krista Kerr	1999	Enantioselective ketone reduction			
Dino Alberico	1999	Thermoplastic elastomeric silicones			Ph.D.
Guelph					
Bryan Davies McMaster	1998	Chelating Silicones	3 rd	Year	
Friedrika Becker Duisburg	1997	Ethylene Oxide Sterilization of Silicones			Ph.D.
Marko Baller	1997	Decouplable Coupling Agents.			Ph.D. Basel
Bryan Davies McMaster	1997	Silicone Wood Composites	2 nd	Year	
Stacey Bridges Student	1996	Wood-PE Composites			Grad.
Denny Lin Toronto	1995	Chiral tartrate silanes			M.Sc.

Herman Yang Computers	1994-96	DMSO for D ₃ production	Quantum
Hanan Atala	1994-95	Amino acid derived surfactants	
Helen B. Penny	1992	Hydrosilanes	PDF
Ralph Ruffolo Toronto	1992	Tartrate modified silicones	PDF
M. Tomaszewski BioChem.	1987	The β -effect; Acylation	Scientist, Thera.,
Laval Patricia Falletta CCIW	1986-87	Polysilylstyrenes	Scientist,
Jennifer Townsend Ont. Min.	1986	Polysilylstyrenes	Scientist, of
Environment Axel Neuy Universität	1988-89	β -effect	Ph.D. Duisburg,
Germany Peter Hülser GmbH,	1985-86	The Silicon α - and β -Effects	SurTec Germany.

Fourth Year Project Students

STUDENT	YEAR(S)	TOPIC	CURRENT
STATUS			
Stephanie Krakar	2004	Oligocarboxylate silicones	
Jill Ranger	2004	Surface bound nucleosides	
Stefanie Mortimer Carolina	2003	Heparin delivery	M.Sc., N.
Lauren Scott	2003	Antithrombogenic surfaces	M.Sc., UBC
Andy Cleaver	2000	Enantioselective Reductions	
Ines Alonso	1999	Silicones and Steric Stabilization	
Andre Lapierre	1999	Enantioselective Reductions	
Dwayne Stresman	1998	Siloxycarbenes (with J. Warkentin)	
Dino Alberico	1998	Cp-silicones, thermal crosslinking	
Gladys Chan school	1998	Protein-Silicone Latexes	Medical
Joerg Urschey	1997	Fluorescent Silicones	
Andrea Straatmann	1997	Water borne coupling agents	
Armin Schneider	1996	Hydrosilation catalysts	
		Diplomearbeit, Duisburg	
Jeff Kent	1996	Enzymes on Silicone Surfaces	

Alex Andronov Berkely	1995	Amphiphilic Polymers	M.Sc.
Hanan Atala	1995	Diels-Alder Based Coupling Agents	
Thomas Kuhnen Duisburg	1995	Inorganometallic Polymers	Ph.D.
Andrew Stadler	1994	Organommodified silicone colloids	
Jay Atanasoff	1994	Pt hydrosilation	
Chris Roos Frankfurt	1993	Silanone from thermal decomposition	Ph.D.
Dagmar Ulbrich Frankfurt,	1993	Pausen Khand Reactions Using Disilyl-dicobalt	Ph.D.
		Alkyne complexes	Germany
Jason Bernais	1993	Silicone-cellulose copolymers	MBA
Mike Roth	1991	see M.Sc. student	
Bjorn Ramacher Duisburg	1991	Tetrakis(trimethylsilylalkynyl)silanes	Ph.D.
Rick Barker Pioneer	1990	Silicone stabilized colloids	Scientist, Balloon,
Stoney Creek			
Ralf Jueschke Duisburg	1989	The β -effect; Diastereoselectivity	Ph.D.
Bernhard Hladik Duisburg	1989	Silicone radical reactions	Ph.D.
Stefan Wenzel Duisburg	1990	Silylstyrene condensations	Ph.D.
Daniel Chau Corp.	1989	Slow release drugs	Newalta
Sean Guenette Ottawa	1988-89	Slow release drugs	Ph.D.
Axel Neuy Duisburg	1988-89	The β -effect	Ph.D.
Christina Kremers Duisburg	1987-88	Silane polymers and chiral silaheterocycles	Ph.D.
Elizabeth Jefferson Toronto	1987-88	The β -effect with Styrylsilanes	PDF,
George Elia	1986-87	Mechanism of Mukaiyama Reaction	
Patricia Falletta CCIW	1986-87	Polysilylstyrenes,	Scientist,
Peter Hülser GmbH,	1985-86	The Silicon α - and β -Effect	SurTec Germany.

Research Funding

Applications (Type O= Operating, E = Equipment, I = Infrastructure, MI = Major Installation, C=Contract)

<u>Applicants</u>	<u>Title of Project, Grantor</u>	<u>Type</u>	<u>Amount</u>
<u>Year</u>			
	Biomimetic Intraocular Lens Surfaces for Minimization of Posterior Capsule Opacification, NSERC	CHRP	
<i>Brook, M. A.</i> 2006 <i>Cappretta, A.</i>	HPFC Chromatograph, NSERC	E	29,604
<i>Brook, M. A.</i> 2006	GPC Chromatograph, NSERC	E	86,610
<i>Sheardown, H.D.</i> 2006-2010 <i>Brook, M.A., CIHR (Brook portion, \$35K)</i> <i>West-Mays, J.</i>	PDMS Based Keratoprosthesis In vitro and in vivo	O	142,500
<i>Brook, M. A.</i> 2006-11	Silicone Biocompatibility from Interfacial Control NSERC	O	115500

Research Funding

Funding Held (Type O= Operating, E = Equipment, MI = Major Installation)

<i>Brook, M.A.</i> 2006 <i>Ganachaud, F.</i>	Biocompatible, Thixotropic amphiphilic silicones as retinal tamponades, Ambassade de France (exchange Montpellier)	Travel	10,000
<i>Pelton, R.H.</i> 2006-10 <i>Brook, M. A.</i> 18 others	Sentinel: The Canadian Research Network on Bioactive Paper, NSERC, Brook portion 5%	O	10,000,000
<i>Brook, M. A.</i> 2005 <i>Sheardown, H.D.</i>	Intraocular lenses, AMO	Grant	157500
<i>Sheardown, H.D.</i> 2004-05 <i>Brook, M. A.</i>	PDMS – Hydrogel Interpenetrating Networks as Ophthalmic Biomaterials	I2I	125000

Brennan, J.D. 2004	Mercury Porosimeter for Characterization of	RT1(E) 88,419
Brook, M. A.	Macroporous Silicas, NSERC	
Brook, M. A. 2004	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab. (US 100000)	O 130000
Brook, M. A. 2004	Anti-fouling surfaces to reduce clotting (provided by J. Weitz, Hamilton Health Sciences	O 20000
Brook, M. A. 2003	Dow Corning Toray Silicones Silicone Liquid Crystals (M. Amako)	O 89000
Brash, J. 2003 +3 others	Gamma Counter, NSERC	E 39405
Brennan, J.D. 2003-6	Development of Mesoporous Monolithic Columns for	CRD 1.0×10^6
Brook, M. A. Pinto, D. Volmer, D. Covey, T.	High Throughput Proteomics Applications NRC.NSERC, with MDS-Sciex BROOK PORTION (37%)	
Sheardown, H. 2003,4	PDMS Based Artificial Corneas – Cornea Epithelial	O 110000
Griffith, M. 2005	and Stromal Cell Interactions and Device Design	120000
Brook, M. A.	NSERC CHRP (40%)	
Sheardown, H. 2003-2006	Silicone Lenses for the Mitigation of Scarring	O 70000
Brook, M. A. Wong, D.	Following Corrective Laser Eye Surgery Materials & Manufacturing Ontario (Brook portion 40%)	
Brook, M. A. 2001-2005 Control, NSERC	Silicon at the Interface: Synthesis Directed to Interfacial	O 74500
Brook, M. A. 2003	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab. (US 100000)	O 155000

Brook, M. A. 2002	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab. (\$US 80000)	O	120000
Brook, M. A. 2001-2002	Dow Corning Toray Silicones PhD Research Student Funding (M. Amako)	O	25000
Brook, M. A. 2001	International Collaborative Travel Grant, CIHR (+ living expenses in France up to 2 months paid by CNRS)		1600
Brook, M. A. 2001	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab.	O	90000
Brook, M. A. 2001	Protein-Containing Emulsions in Mucosal Immunology	O	84750
McDermott, M. 2002	NSERC CHRP.		89750
2003			84750
Organ, M. 2001-3	Accelerating Drug Discovery Using Frontal Affinity	CRD	1.6x106
Brook, M. A. Brennan, J.D. Schriemer, D. 2001-3	Chromatography/Mass Spectrometry, NSERC, with INH with MDS-Sciex BROOK PORTION		100000
McCarry, B. E. 2000	Biomolecular Interactions, Ontario Innovation Trust	MI	5,190,000
Brook, M. A. (16 others)			
McCarry, B. E. 2000	Biomolecular Interactions, CFI	MI	5,190,000
Brook, M. A. (16 others)			
Harrison, P. 2000 Warkentin, J. McGlinchey, M. Brook, M. A. Berti, P.	FT-IR System for <i>in-situ</i> Reaction Monitoring, NSERC	E	106145

Valliant, J.F.

Brook, M.A. 2000 Harrison, P.H. Bain, A., Leigh, W.J. McGlinchey, M.J. Epand, R.; Valliant, J.F.	300 MHz CP-MAS NMR Spectrometer, NSERC	MI	336800
Brook, M. A. 2000-2001	Reduced Fouling Quartz Surfaces for UV Sterilization of Water, Material & Manufacturing Ontario	O	40000
Pelton, R.H. 1999-2003 Brook, M.A.	Calcium Carbonate Adhesion to Paper, Mintech Canada, Grant-in-Aid (13 hours/month)	O	35840
Brook, M. A. 1999-2000	Reduced Fouling Quartz Surfaces for UV Sterilization of Water, Trojan Technologies Inc.	O	10000
Brook, M. A. 1999-2000	Reduced Fouling Quartz Surfaces for UV Sterilization of Water, Material & Manufacturing Ontario	O	70000
Pelton, R. H. 1999-2002 Brook, M. A.	Calcium carbonate adhesion to paper, Mintech Canada	O	30,000
Brook, M. A. 1999	Silicone Spreading, Unilever Research	C	6500
Terlouw, J. K., 1998 Brook, M. A. Bain, A. Stöver, H.	MS Infrastructure	I	498000
Brook, M. A. 1998	Silicone Membranes, Tel-Tek Norsk Hydro	C	28000
Brook, M. A. 1998	Modifying Quartz Surfaces, Trojan Technologies	C	13462

Brook, M. A. 1998-2000	Dual Functionality Coupling Agents for the Fabrication of Wood-Plastic Composites, Material & Manufacturing Ontario	O	80000
Brook, M.A. 1997	Silicone sterilization with EO OCMR and Walsh Medical Devices	O	22000
Brook, M.A. 1997-2000	Functional Silane Coupling Agents : Grafting Incompatible Materials and Anchoring Transition Metals, NSERC Operating, 40 hr.	O	44000
Brook, M.A. 1997	Wood/Recycled Polyolefin Composites, OCMR	O	20000
Lott, J. 1996 Brook, M.A. (one of several major applicants)	Environmental Microscope, NSERC, Major installation	MI	633481
Kramer, J. M. 1996 Brook, M.A. Ford, D. Schwarz, H. Yang, D.	Molecular Modelling Software and Computer, NSERC	E	47710
Brook, M.A. 1996	Wood/Recycled Polyolefin Composites, OCMR	O	50000
Brook, M.A. 1994-6	Microparticle Delivery Systems for Immunogenic Agents, NSERC CRD Matching Funds	CRD	64500
Brook, M.A. 1995	Wood/Recycled Polyolefin Composites, OCMR	O	60000
Brook, M.A. 1995-96 Dickson, J. M.	Novel Membranes, Ontario-Singapore Technology (50% Brook)	O	92000
Brook, M.A. 1995-7 Pelton, R.	Silicone Modified Papers, MODO (50% Brook)	O	21000

Brook, M.A. 1995-6	Microparticle Delivery Systems for Immunogenic Agents, URIF Matching Funds, (50% Brook)	O	122000
McDermott, M. Underdown, B.			
Brook, M.A. 1994-6	Oral Immunization Delivery Systems, Connaught Laboratories (50% Brook)	O	120000
McDermott, M. Underdown, B.			
Brook, M.A. 1994	Dynamic Light Scattering Apparatus, NSERC,	E	105197
Pelton, R. Winnik, F., Stöver, H.			
Brook, M.A. 1994	Silicon based Polymerization Initiators, OCMR	O	35000
Brook, M.A. 1994	Oral Immunization Delivery Systems, Connaught Lab.	O	120000
Brook M.A. 1993-96	Stereocontrol and Silicon: Application to Organic and Polymer Synthesis, NSERC	O	31000
Brook, M.A. 1993-	Silicon based Polymerization Initiators, OCMR	O	20000
Stöver, H.D.H. 1992	Differential Scanning Calorimeter, Thermalgravimetric Analyzer, NSERC	E	71559
Brook, M.A. 1991	Oligosilylstyrenes as Glass Coating Materials, OCMR	O	15500
Brook, M.A. 1990-92	Pervaporative Membranes, URIF Matching Funds	O	57000
Dickson, J.	(50% Brook)		
Brook, M.A. 1990-92	Pervaporative Membranes, NSERC CRD Matching Funds	O	54000
Dickson, J.	(50% Brook)		
Brook, M.A. 1990-92	Pervaporative Membranes, ICST	O	45000

Dickson, J.	(50% Brook)		
Brook, M.A. 1990-92	Organosilicon compounds: From the β -effect to Polymers, NSERC	O	30000
Brook, M.A.	Polymers, OCMRO	4500	1989
Brook, M.A. 1989	Silicone Polymers, Dow Corning	O	6500
Brook, M.A. 1989	Gel Permeation Chromatograph, NSERC	E	54260
Brook, M.A. 1988	Sterically Stabilized Particles, Xerox	O	5000
Pelton, R.	(50% Brook)		
Brook, M.A. 1988	Glycol-Silicone Polymers, J.P. Bickell Foundation	O	12500
Brook, M.A. 1988-89	Chiral Manifolds & Lewis Acids: Organosilane & Titanium Compounds, NSERC	O	30000
Brook, M.A. 1988	Oligotrihalosilylstyrenes: & Polymer Blending Agents OCMR	O	12500
Brook, M.A. 1987-90	Polysilylstyrenes, MIPPT	O	5000
Brook, M.A. 1987 Falletta, P.	Silicone Coating Materials, SEED (E + IC)	O	2600
Brook, M.A. 1987	Organosilicon Compounds Bearing Chiral Ligands: Synthetic Applications NATO	O	2500
Brook, M.A. 1987	Lewis Acids in Enantioselective Organic Synthesis McMaster University	O	13000

Brook, M.A. 1986	Polysilylstyrenes, MIPPT	O	2000
Brook, M.A. 1985-87	The Application of the Trifluorosilyl Group to Organic Synthesis NSERC	O	17280
Brook, M.A. 1985	Lewis Acids in Organic Synthesis, McMaster University	O	15000

Lifetime Publications (Green – undergraduates; Red = graduate students; BLUE = PDFs)

Peer Reviewed

(a) Books

- 1 B BROOK, M. A. *SILICON IN ORGANIC, ORGANOMETALLIC AND POLYMER CHEMISTRY*, WILEY: NEW YORK, 2000, 608 pages, (704 including tables, and indices, SOLE AUTHOR).

(b) Contributions to Books

6. F M. Liu, A. Ragheb, P. Zelisko, and M. A. Brook, *Preparation and Application of Silicone Emulsions Using Biopolymers*, In *Colloidal Biomolecules, Biomaterials, and Biomedical Applications* (Surfactant Science, Vol. 116), Elaissari, Abdelhamid, Ed.; Mercel Dekker Inc., 2004, Chapter 11, pages-309-329, invited manuscript.
5. N Laronde, F.; Brook, M. A. *Amino acid catalysts for the enantioselective hydrosilane reduction of carbonyl groups*, In *Catalysts for the Fine Chemical Synthesis, Vol. 1, Hydrolysis, Oxidation and Reduction*, Roberts, Stan M.; Poignant, G., Eds., 2002, pp. 169-172.
4. F Bartzoka, V.; McDermott, M. R.; Brook, M. A., *Protein-Silicone Interactions at Liquid/Liquid Interfaces*, In *Emulsions, Foams and Thin Films*, Mittal, K. L.; Kumar, P., Eds., Dekker, New York, 2000, Chap. 21, pp. 371-380, invited manuscript.
3. R Adrian G. Brook and Michael A. Brook, *The Chemistry of Silenes*, *Adv. Organomet. Chem.*, **1996**, 39, 71-158.
2. R Michael A. Brook, *1,2-bis-(Trimethylsiloxy)cyclohexene*, in *Encyclopaedia of Reagents in Organic Synthesis*, L. Paquette, Ed., John Wiley and Sons, Vol 1, 1995, p. 602, invited manuscript.
1. R Michael A. Brook, *tert-Butyl α -chloro- α -trimethylsilylacetate*, in *Encyclopaedia of Reagents in Organic Synthesis*, L. Paquette, Ed., John Wiley and Sons, Vol. 2, 1995, p. 862, invited manuscript.

(c) Journal Articles (C = communication, N = Note, F = Full paper, R = Review)

128. C Ferdinand Gonzaga and Michael A. Brook, *Structured Nanoparticles in Silicone Surfactant Multilayers*, *Angew. Chem. Int. Ed.*, submitted 11/8/2005

Accepted for Publication

132. C Weian Zhao, Yan Gao, Srinivas A. Kandadai, Michael A. Brook* and Yingfu Li. *DNA Polymerization on Gold Nanoparticles via Rolling Circle Amplification: Towards Novel Scaffolds for Three-Dimensional Periodical Nanoassembly*, accepted *Angew. Chem. Ed. Engl.* Jan 2006.
131. F Elodie Pacard, Michael A. Brook, Amro M. Ragheb, Christian Pichot and Carole Chaix, *Elaboration of silica colloid/polymer hybrid support for oligonucleotide synthesis*, *Colloids Surf. B: Biointerfaces*, accepted, Dec. 2005.
130. F Chen, H., Brook, M. A., Sheardown, H. D., Chen, Y., Klenkler, B. A *Generic Bioaffinity Surfaces*, accepted *Bioconjugate Chemistry* Nov 2005 (ACS ASAP CODEN: BCCHE\$ ISSN:1043-1802. AN 2005:1345621).

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129. F Hodgson, Richard J.; Besanger, Travis R.; Brook, Michael A.; Brennan, John D. *Inhibitor Screening Using Immobilized Enzyme Reactor Chromatography/Mass Spectrometry*. *Anal. Chem.* **2005**, *77*, 7512-7519.
128. Liang, L.; Dickson, J. M.; Zhu, Z.; Jiang, J.; Brook, M. A., *Removal of 1,2-dichloroethane from aqueous solutions with novel composite polydimethylsiloxane pervaporation membranes*. *J. Appl. Polym. Sci.* **2005**, *98*, 1477-1491.
127. F Chen, H.; Chen, Y.; Sheardown, H.; Brook, M. A., *Immobilization of heparin on a silicone surface through a PEG spacer*, *Biomaterials*, **2005**, *26*, 7418-1724.
126. C Ragheb, A. M.; Brook, M. A. *Highly stable chymotrypsin entrapped in silicone elastomers*, *Biomaterials* **2005**, *26*, 6973-6983.
125. F Yang Chen, Zheng Zhang, Xihua Sui, John D. Brennan and Michael A. Brook, *Reduced Shrinkage of Sol-Gel Derived Silica Using Sugar-based Silsesquioxane Precursors*, *J. Mater. Chem.* **2005**, *15*, 3132 – 3141.
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123. F Dong, Hanjiang; Brook, Michael A.; Brennan, John D., *A New Route to Monolithic Methylsilsesquioxanes: Gelation Behavior of Methyltrimethoxysilane and Morphology of Resulting Methylsilsesquioxanes under One-Step and Two-Step Processing*, *Chem. Mater.* **2005**, *17*, 2807-2816.
122. F Sonya Balduzzi, Michael A. Brook and Michael J. McGlinchey, *Diastereoselective Addition of Allyl- and Crotylstannanes to Dicobalt-Complexed Acetylenic Aldehyde*, *Organometallics* **2005**, *24*, 2617-2627.121.
F Kovarik, Peter; Hodgson, Richard J.; Covey, Tom; Brook, Michael A.; Brennan, John D., *Capillary-Scale Frontal Affinity Chromatography/MALDI Tandem Mass Spectrometry Using Protein-Doped Monolithic Silica Columns*, *Anal. Chem.* **2005**, *77*, 3340-3350.

120. F. Masaaki Amako, Jonathan Schinkel, Michael A. Brook, Michael J. McGlinchey and James F. Britten, *Rac/meso Transformations of Disiloxane-bis(1-indenyl)-ansa-ferrocenes: An x-ray Crystallographic and NMR Study, Organometallics*, **2005**, 24, 1533-1543.119. F. Xihua Sui, Jorge A. Cruz-Aguado, Yang Chen, Zheng Zhang, Michael A. Brook and John D. Brennan, *Properties of Human Serum Albumin Entrapped in Sol-Gel-Derived Silica Bearing Covalently Tethered Sugars*, *Chem. Mater.* **2005**, 17, 1174-1182.
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 106. F Dina Tleugabulova, Zheng Zhang, Yang Chen, Michael A. Brook and John D. Brennan Fluorescence Anisotropy in Studies of Solute Interactions with Covalently Modified Colloidal Silica Nanoparticles, *Langmuir* **2004**, 20, 848-854.
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 104. F Frank J. LaRonde and Michael A. Brook, *Allylation of aldehydes catalyzed by chiral N,N'-bis(N-methyl-2-methylene-4,5-bisphenyl-imidazole)-1,2-cyclohexane diamine rhodium (III) complexes*, *Can. J. Chem.* **2003**, 81, 1206-1212, issue dedicated to John Harrod, invited manuscript.
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 98. F P. Zelisko, M. A. Brook, *Stabilization of α -Chymotrypsin and Lysozyme Entrapped in Water-In-Silicone Oil Emulsions*, *Langmuir*, **2002**, 18, 8982-8987.
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 93. F Gilles Sèbe and Michael A. Brook, *Hydrophobization of Wood Surfaces: Covalent Grafting of Silicone Polymers*, ^{Wood Sci. Tech.} **2001**, 35, 269-282.
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142. Chen, H; Sheardown, H; Brook, MA, *Generic Modification Method for Creating Biocompatible Silicone Elastomers*, International Conference and Workshop on Physical Chemistry of Bio-Interfaces, Barossa Valley, Australia, May 2004.
141. Paul M. Zelisko, Lauren E. Scott, and Michael A. Brook, *The Delivery of Proteins from Water-in-Silicone Oil Emulsions*, International Conference and Workshop on Physical Chemistry of Bio-Interfaces, Barossa Valley, Australia, May 2004.
140. Amro M. Ragheb, Stefanie A. Mortimor, Susan Jo, Michael Hrynyk and Michael A. Brook, *Silicone rubber for drug delivery applications: The effect of poly(ethylene glycol) on the drug delivery process*, International Conference and Workshop on Physical Chemistry of Bio-Interfaces, Barossa Valley, Australia, May 2004.
139. Zheng Zhang, Yang Chen, Dina Tleugabalova, John D. Brennan and Michael A. Brook, *Immobilization of Proteins within Silica and Bioanalysis Applications of Protein Entrapped Silica Monolith*, International Conference and Workshop on Physical Chemistry of Bio-Interfaces, Barossa Valley, Australia, May 2004.
138. Paul M. Zelisko, Jill J. Coe-Ranger, and Michael A. Brook, *Water-in-Silicone Oil Emulsions as Delivery Vehicles for Proteinaceous Materials*, International Conference and Workshop on Physical Chemistry of Bio-Interfaces, Barossa Valley, Australia, May 2004.
137. Chen, H, Brook, MA, Sheardown, H. *Protein-rejecting Silicone Surface Immobilization of Poly(ethylene oxide) by Covalent Bonds*, 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 653.
136. Brook, MA, Brennan, J, Zhang, Z, Chen, D, Gao, Y. *Proteins trapped in porous silica: Biomaterials Scaffolds*. 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 590.
135. Zhang, Z, Chen, Y, D'souza, R, Brennan, JD, and Brook, MA, *Biocompatible Macroporous Silica Monoliths with Entrapped Proteins*, 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 1323
134. Ragheb, AR, Hrynyk, M, Brook, MA, *Silicone-Lipase Composite: Affecting Protein-Silicone Interaction By Tailoring The Polymeric Structure*, 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 1748.
133. Amarne, H., Gao, Y., Guo, J., Chen, H., Sheardown, H., Brook, M. A. *Silicon Lenses for the Mitigation of Scarring in the Eye* MMO and EMK Meeting: Toronto, Canada, June, 2004.

132. Zelisko, PM, Ranger-Coo, J, and Brook, MA, *Water-in-Silicone Oil Emulsions as Delivery Vehicles for Proteinaceous Materials*, 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 835.
131. Chen, H, Brook, MA, Sheardown, H. Controlled Morphology *PEO-Silicone Composites Have Protein Rejecting Surfaces*, 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 22.
130. Brook, M. A. *Breast Implant Lawsuits – A Tempest in a C-Cup?* Rotary Lunchtime Lectures, Feb. 2004, Hamilton.
129. Amro Ragheb, Hong Chen, Meghan L. Marshall, Michael Hrynyk, Heather Sheardown and Michael A. Brook, *Controlling Protein Deposition at Silicone Elastomer Interfaces*, 227th ACS National Meeting, Anaheim, CA, March, 2004.
128. Jill J. Coo-Ranger, Paul M. Zelisko, Michael A. Brook, *Ionic silicone surfactants in water-in-silicone oil emulsions containing proteins*, 227th ACS National Meeting, Anaheim, CA, March, 2004, Abstract POL 510.
127. Paul M. Zelisko, Jill J. Coo-Ranger, and Michael A. Brook, *The Interaction of Proteins with Functionalized Silicones*, 227th ACS National Meeting, Anaheim, CA, March 2004, Abstract POL 391.
126. Michael A. Brook, Paul Zelisko, Hong Chen, Muxin Liu, Amro Ragheb, Michael Hrynyk, and Heather Sheardown, *Interfacial Control with Proteins at Silicone/Water Interfaces*, Polymerisation in Dispersed Media, PDM April 2004, Lyon, France, Abstract O5.5.
125. Elodie Pacard, Michael A. Brook, Amro M. Ragheb, Carole Chaix, and Christian Pichot, *Elaboration of Silica/polymer hybrid support for oligonucleotide synthesis and biddiagnostics*, Polymerisation in Dispersed Media, PDM April 2004, Lyon, France.
124. Yang Chen, Zheng Zhang, John D. Brennan, Michael A. Brook,* *A glycerol-derived silica precursor for the encapsulation of protein in porous silica monoliths*, XII International Workshop on Sol-Gel Science and Technology, Sydney, Australia, August 2003, Abstract 788.
123. Michael A. Brook,* Yang Chen, Kui Guo, Zheng Zhang, Wen Jin, Anil Deisingh and John D. Brennan*, *Sugar-Modified Silanes: Precursors for Silica Monoliths*, XII International Workshop on Sol-Gel Science and Technology, Sydney, Australia, August 2003, Abstract O-50.
122. Masaaki Amako, Michael A. Brook, *Ring Flipping Behavior of $O(\text{SiMe}_2\text{-}\eta^5\text{-Indenyl})_2\text{Fe}$ complexes and Their Co-Polymerization with Silicones*, OMCOS 12, Toronto, July 2003, Abstract.
121. Stefanie A. W. Mortimer, Paul M. Zelisko, and Michael A. Brook, *Protein Deposition On Modified Silica Surfaces*, 36th Organosilicon Symposium, Akron (won best student prize).
120. Paul M. Zelisko and Michael A. Brook, *The Properties Of Human Serum Albumin And Triethoxysilyl-Terminated Polydimethylsiloxane At The Interface Of Water-In-Silicone Oil Emulsions*, 36th Organosilicon Symposium, Akron
119. S. A. W. Mortimer, P. M. Zelisko, M. A. Brook, *A Novel Approach to Amino Acid-Modified Silicones*, 2003 IUPAC Congress and 86th Conference of The

- Canadian Society for Chemistry, Ottawa ON, Aug. 2003, Abstract. (won best undergraduate student MSED poster).
118. P. M. Zelisko, M. A. Brook, *The Interaction of Proteins with Silicone Polymers Containing Hydrophilic Moieties*, 2003 IUPAC Congress and 86th Conference of The Canadian Society for Chemistry, Ottawa ON, Aug. 2003, Abstract.
117. A. M. Ragheb, M. A. Brook, *The role of hydrophilic additives in affecting the internal hydrophobic environment of silicone rubber: effect of polyethylene glycol species on the enzymatic activity of lipase C. rugosa entrapped in silicone composite*, 2003 IUPAC Congress and 86th Conference of The Canadian Society for Chemistry, Ottawa ON, Aug. 2003, Abstract. (Won 1 of 3 best graduate students posters).
116. Hong Chen, Michael A. Brook and Heather Sheardown, *A New Approach to PEO-Modified Silicone Rubber: Passivation of Silicone Surfaces for Protein Rejection and Cell Growth*, 29th Annual Biomaterials Society Meeting, Reno Nevada, May 2003, Abstract.
115. Zheng Zhang, Michael A. Brook, *The Biporous Structure of Monolithic Silica Columns Containing Entrapped Proteins*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-60.
114. Paul M. Zelisko and Michael A. Brook, *The Interaction of Proteins and Silicones at Emulsion Interfaces: Analysis of Protein and Emulsion Stability*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-54.
113. Amro Ragheb and Michael A. Brook, *Oxidizable Coupling Agents: Introduction of Surface Functionality*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-58.
112. Hong Chen, Michael A. Brook, and Heather D. Sheardown, *An Investigation of the Surface Properties and Biocompatibility of Polyethylene Oxide-Modified Silicone Rubber*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-53.
111. Elodie Pacard, Hong Chen, Michael A. Brook, and Carol Chaix, *Compatibilization of Silica Surfaces For Proteins*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P2-49.
110. Cindy M. Liu, Paul Zelisko and Michael A. Brook, *Protein-Silicone Conjugates: Surface Activity as a Guide to Utility as Biodegradable Surfactants*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P2-29.
109. Yang Chen and Michael A. Brook, *Syntheses of Sugar-Based Coupling Agents and their Use in Preparing Protein-Friendly Silica Surfaces*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-57.
108. Masaaki Amako and Michael A. Brook, *Transition Metal-Containing Silicones From Disiloxane Compounds*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P2-23.

107. Li, G.; LaRonde, F. J.; Brook, M. A. *Stereoselective reduction of ketones with triethoxysilane catalyzed by C2-symmetric titanium complexes*, 224th ACS Meeting, Boston, August 2002, Abstract ORGN 509
106. M. A. Brook, V. Bartzoka, P. Zelisko, M. Walsh *Silicone-Protein Copolymers: Controlling Interfacial and Protein Stabilization*, 1st European Silicon Days, Munich, 2001 Abstract B11.
105. Brook, M. A., Laronde, F. J., Ragheb, A., *Controlling Silica Surfaces Using Responsive Coupling Agents*, Silica 2001, Mulhouse, France, Sept. 2001.
104. Mohamed, M.; Brook, M. A. *Synthesis of α -Allylsilane-Amino Acids and Their Reactions With Aromatic Acetals*, 212th ACS Meeting, Chicago, August 2001, Abstract ORGN 457.
103. Paul M. Zelisko, and Michael A. Brook, *Modified silicones for the stabilisation of proteins and enzymes in emulsions: Potential Vaccine Delivery Systems*, 212th ACS Meeting, Chicago, August 2001, Abstract POLY 403.
102. Brook, M. A., Zelisko, P. and Bartzoka, V. *Silicone-Protein Copolymers: Controlling Interfacial and Protein Stabilization*, International Workshop on Silicon Containing Polymers ISPO 2001, University of Kent at Canterbury, UK, June 2001, Abstract 57.
101. Paul Zelisko and Michael A. Brook, *Delivery of Proteinaceous Materials from Silicone Protected Microparticles and Water-in-Silicone Oil Emulsions*, Controlled Release Society, San Diego, June 2001, Abstract 6194.
100. Mustafa Mohamed and Michael. A. Brook, 84th Canadian Society for Chemistry Conference, Montreal, 2001, Abstract 1206.
99. Amro Ragheb and Michael. A. Brook, *The Role of Light in the Fouling of Wastewater UV-Disinfection*, 84th Canadian Society for Chemistry Conference, Montreal, 2001, Abstract 693.
98. Zelisko, PM; Flora, K; Brook, MA; Brennan, JD., *The Interaction of Silicone and Human Serum Albumin: Stabilisation Against Denaturation at the Interface*, 84th Canadian Society for Chemistry Conference, Montreal 2001, Abstract 1163.
97. Mustafa Mohamed and Michael. A. Brook, *C₂-Symmetric Lewis Acids: Enantioselective Reduction Of Carbonyl Groups*, 34th Organosilicon Symposium, White Plains, NY, May 2001, Abstract C-8.
96. Amro Ragheb and Michael. A. Brook, *An Attempt To Use Oxidizable Silane Coupling Agents To Mitigate Fouling of Quartz Surfaces*, 34th Organosilicon Symposium, White Plains, NY, May 2001, Abstract B-22.
95. Paul Zelisko and Michael. A. Brook, *Proteins and Enzymes at the Interface of Water-in-Silicone Oil Emulsions*, 34th Organosilicon Symposium, White Plains, NY, May 2001, Abstract A-10.
94. Brook, M. A.; Zelisko, P. *Exploiting Silicone-Protein Interactions: Stabilization Against Protein Denaturation at Interfaces*, 211th ACS Meeting, San Diego, April 2001, Abstract Poly181.
93. Brook, M. A.; Ragheb, A. *Oxidizable Coupling Agents: Introduction of Surface Functionality*, Adhesion Society Conf., Williamsburg, VA, Feb. 2001, Abstract 373.

92. Zelisko, P.; Brook, M. A. 20th Conference of the Canadian Biomaterials Society, *Water-In-Silicone Oil Emulsions in the Oral Delivery and Storage of Proteins and Enzymes*, Hamilton, August 2000.
91. Vasiliki Bartzoka and Michael A. Brook, Stable Silicone-Protein Emulsions: New Routes to Topical Delivery of Proteins, Society of Cosmetic Chemists Conference, Toronto, ON, May 2000.
90. Frank J. LaRonde and Michael A. Brook, *C₂-Symmetric Lewis Acids: Enantioselective Reduction Of Carbonyl Groups*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract B-17.
89. Frank J. LaRonde and Michael A. Brook, *Enantioselective Reduction Using Extracoordinate Silicon*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-31.
88. Mustafa Mohamed and Michael A. Brook, *Photolyses Of Tris(Trimethylsilyl)Silane And Tris(Trimethylsilyl)Silyl ethers: Trapping Of Silyl Radicals And Silylenes*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-34.
87. Mustafa Mohamed and Michael A. Brook, *Synthesis Of Allylsilane-Containing Amino Acids Via The Claisen Rearrangement*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-33.
86. Amro M. Ragheb, Michael A. Brook, *Squalene-Polysiloxane Cross Linked Polymer*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-35.
85. Ahmed H. Alzamy and Michael A. Brook, *Thermoplastic Silicone Elastomers*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-36.
84. Paul Zelisko and Michael A. Brook, *Enhanced Stability Of Alpha-Chymotrypsin And Alkaline Phosphatase Entrapped In Water-In-Silicone Oil Emulsions*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-32.
83. V. Bartzoka, M. A. Brook, *Protein-Silicone Synergies at Liquid-Liquid Interfaces*, Gordon Research Conference on Polymer Colloids, Tilton NH, July 1999, Abstract 42.
82. Sonya Balduzzi and M. A. Brook, Stereoselective carbon-carbon bond formation via cobalt-complexed alkynes, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract 666.
81. Frank J. LaRonde; Michael A. Brook, *Stereoselective Reduction of Ketones by Histidine: Alkoxysilane Complexes*, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract 684.
80. M. Mustafa and Michael A. Brook, *Application of the Claisen Rearrangement to the Synthesis of Amino Acid-Modified Allylsilanes*, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract 923.
79. D. Alberico, M. A. Brook, *Thermally Reversible Siloxane Elastomer*, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract Number: 18 (undergrad).
78. M. Mustafa and Michael A. Brook, *Synthesis of Allylsilanes via Ester Enolate Claisen Rearrangement of Vinylsilane-Modified Amino Acids*, Quebec and Ontario Minisymposium on Biological and Organic Chemistry, Brock University, Oct. 1998, Abstract 58.

77. F. J. Laronde and Michael A. Brook, *Reduction of Ketones with Hypervalent Trialkoxysilanes: Imidazole-Mediated Reduction of Carbonyl Compounds*, Quebec and Ontario Minisymposium on Biological and Organic Chemistry, Brock University, Oct. 1998, Abstract 57.
76. S. Balduzzi and Michael A. Brook, *Stereoselective Intramolecular Allyl Transfer*, Quebec and Ontario Minisymposium on Biological and Organic Chemistry, Brock University, Oct. 1998, Abstract 59.
75. Wayne W. Y. Lau, Brendan Hyland, James M. Dickson and Michael A. Brook, *Removal of Trace Organics from Water by Pervaporation using a composite hollow fiber Membrane with a Novel Silicone coating*, 4th National symposium on Progress in Materials Research, National University of Singapore, Mar., 1998, Proceedings 546-549.
74. F. Laronde and Michael A. Brook, *Reduction of Ketones With Hypervalent Trialkoxysilanes: Imidazole Mediated Reduction Of Carbonyl Compounds*, Fifth International Conference on Heteroatom Chemistry, London Ont., July 1998, Abstract.
73. M. Mustafa and Michael A. Brook, *Application Of The Claisen Rearrangement To The Synthesis Of Allylsilane-Modified Amino Acids*, Fifth International Conference on Heteroatom Chemistry, London Ont., July 1998
72. V. Bartzoka and Michael A. Brook, *Protein-Silicone Interactions at Liquid/Liquid Interfaces*, 72nd ACS Colloid and Surface Science Symposium, Penn. State, Pennsylvania, June 1998, Abstract 59.
71. F. Laronde and Michael A. Brook, *Diels-Alder Coupling Agents: Reversible Modification of Silica Surfaces*, 31st Organosilicon Symposium, New Orleans, May 1998, Abstract.
70. R. Stan and Michael A. Brook, *Polysiloxane Polymers Containing Nitrilotriacetic Acid Chelating Groups*, 31st Organosilicon Symposium, New Orleans, May 1998, Abstract.
69. J. Jiang, V. Bartzoka, D. Valentini and Michael A. Brook, *Surface Hydrophobization of Hydrophilic Biopolymers Using Silanes and Silicones*, Polymer Colloids Gordon Conference, Tilton, NH, July 1997.
68. Ruffolo, R., Stradiotto, M., Kuhnen, T., McGlinchey, M. J., Brook, M. A., *Molecular Lego: Building Blocks For Inorganometallic Polymers*, 80th Canadian Society for Chemistry Conference, Windsor, June 1997, Abstract.
67. Stradiotto, M., Rigby, S., Brook, M. A., McGlinchey, M. J., *Stereochemically Non-Rigid Poly(indenyl)silanes: A Synthetic, Multidimensional NMR and X-ray Crystallographic Study*, 80th Canadian Society for Chemistry Conference, Windsor, June 1997, Abstract.
66. Ralph Ruffolo, *Allylsilanes as Possible Precursors to Metal-Stabilised Silicon Cations*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.
65. Gilles Sébe, *Hydrophobisation of Pine Wood Surfaces by Grafting Polysiloxanes*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.
64. Gang Hu, *Novel Polysiloxane Polymers Modified with Amino Acids*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.

63. Mustafa Mohamed, *Photochemistry of Tris(trimethylsilyl)silane*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.
62. Urquhart S.G., Hitchcock A.P., Brook M.A., Turci C.C., Denk M., *π -Delocalization in Organosilanes: A Core Excitation Spectroscopy Investigation*, 80th Canadian Society for Chemistry Conference, Windsor, June 1997, Abstract.
61. Michael A. Brook, S. Balduzzi, V. Bartzoka, G. Hu, F. LaRonde, G. Sèbe and R. Stan, *Modifying Biopolymers with Silanes and Silicones*, 4th International Conference on Woodfiber-Plastic Composites, Madison, WI, May 1997, Abstract.
60. Gilles Sèbe and Michael A. Brook, *Hydrophobisation of Pine Wood Surfaces by Grafting Polysiloxanes*, 4th International Conference on Woodfiber-Plastic Composites, Madison, WI, May 1997, Abstract.
59. H. A. Ketelson, Y. M. Heng, M. A. Brook and R. Pelton, *Application of Microscopy Imaging and Analysis in the Characterization of a Model Colloidal Silica System*, 1996 Microscopy and Microanalysis Conference, Minneapolis, Minn., Aug., 1996.
58. R. Ruffolo, M. A. Brook and M. J. McGlinchey, *Towards the Stabilization of Silicon Cations*, 9th International Organosilicon Conference, Montpellier, France, Sept. 1996, Abstract OB21.
57. T. Kuhn, R. Ruffolo, M. Stradiotto, M. A. Brook and M. J. McGlinchey, *Molecular Lego: Building Blocks for Inorganometallic Polymers*, 9th International Organosilicon Conference, Montpellier, France, Sept. 1996, Abstract PB24.
56. V. Bartzoka, M. A. Brook M. R. McDermott, *Silicone-Protein Absorption*, 9th International Organosilicon Conference, Montpellier, France, Sept. 1996, Abstract PB23.
55. V. Bartzoka, M. A. Brook, M. R. McDermott, *Protein-Silicone Interactions at a Solid-Liquid Interface*, 212th ACS Meeting, Orlando, Florida, Aug. 1996, Abstract COLL-39.
54. H. A. M. Ketelson, R.H. Pelton and M.A. Brook, *Surface Properties of Hydrosilane-Modified Silica Colloids*, 212th ACS Meeting, Orlando, Florida, Aug. 1996, Abstract COLL-202.
53. H. A. M. Ketelson, M.A. Brook and R.H. Pelton, *Preparation of Organo-Platinum nanoparticles Supported on Silica Spheres*, 70th ACS Colloid and Surface Symposium, Clarkson University, Potsdam, NY, June 1996, Abstract 43.
52. V. Bartzoka, M. A. Brook, D. Valentini and M. R. McDermott, *Surface Interactions between Proteins and Silicon Polymers: Physical and Covalent Adhesion*, 70th ACS Colloid and Surface Symposium, Potsdam NY, June 1996, Abstract 147.
51. Robert Pelton, Huining Xiao, Michael A. Brook and Archie Hamielec, "The flocculation of polystyrene latex with mixtures of poly(p-vinyl phenol) and poly(ethylene oxide)", Paper Chemistry and Coating, Ottawa, June (1996).
50. Rodica Stan and Michael A. Brook, *Wood-Polyethylene Composite Materials*, 3rd International Conference on Woodfiber-Plastic Composites, Toronto, May 1996, Abstract.

49. Thomas Kuhn, R. Ruffolo, M. Stradiotto, Michael A. Brook and Michael A. McGlinchey, *Molecular Lego: Building Blocks for Inorganometallic Polymers*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-5.
48. Vasiliki Bartzoka, Michael A. Brook and David Valentini, *Silicon-based Coupling Agents for the Compatibilization of Hydrophobic and Hydrophilic Polymers*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-23.
47. Michael A. Brook, Rodica S. Stan and David Valentini, *Silicone-Protein-Starch Adsorption*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-23.
46. Mark Stradiotto, Suzie Rigby, Don Hughes, Alex Bain, Michael A. Brook and Michael A. McGlinchey, *A Multi-Dimensional NMR Study on the Fluxional Behaviour of Tris(indenyl)methylsilane: Molecular Dynamics Mapped Onto A "Hypercube"*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-5.
45. F. David Bayles and Michael A. Brook, *Understanding the α - and β -Silyl Cation Effect*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-7.
44. H. A. M. Ketelson, M.A. Brook and R.H. Pelton, *Colloidal Stability of Functionalized Silica Colloids in Polar Organic Media*, Gordon Research Conference on Polymer Colloids, Tilton, NH, 1995, Abstract P-45.
43. Michael A. Brook, H. A. M. Ketelson and R.H. Pelton, *Silicones on the Surface: Synthetic Approaches to Model Sterically Stabilized Colloidal Systems*, Gordon Research Conference on Polymer Colloids, 1995, Abstract P-46.
42. Michael A. Brook, Vasiliki Bartzoka, Jason R. Bernais and David A. Valentini, *Silicone-Biopolymer Interactions: Physical versus Covalent Adhesion*, Associating Polymers Conference, Loen, Norway, June 1995, Abstract P-7.
41. F. David Bayles and Michael A. Brook, *α and β -Silyl Carbenium Ions*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 286.
40. David A. Valentini, Michael A. Brook, Vasiliki Bartzoka and Mark R. McDermott, *Approaches to Grafting Silicones to Cellulose and Starch*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 686.
39. Vasiliki Bartzoka, Michael A. Brook, David A. Valentini and Mark R. McDermott, *Surface Interactions Between Proteins and Silicone Polymers: Physical and Covalent Adhesion*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 687.
38. Jianxiong Jiang, Michael A. Brook and Mark R. McDermott, *Silicone Grafted Starch Microspheres: Approaches to the Delivery of Bioactive Polymers*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 688.
37. H. A. M. Ketelson, M.A. Brook and R.H. Pelton, *Colloidal Stability of Functionalized Silica Colloids in Polar Organic Media*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 254.
36. Ralph Ruffolo, Michael A. Brook and Michael J. McGlinchey, *Towards the Stabilization of Silenes on Bimetallic Clusters*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 853.

35. F. D. Bayles and M. A. Brook, *α and β -Silyl Carbenium Ions*, 28th Organosilicon Symposium, Gainesville, Florida, April 1995, Abstract P-7.
34. R. Ruffolo, M. A. Brook and M. J. McGlinchey, *Towards the stabilization of silenes on bimetallic clusters*, 28th Organosilicon Symposium, Gainesville, Florida, April 1995, Abstract P-9.
33. D. A. Valentini, M. A. Brook, V. Bartzoka and Mark R. McDermott, *Approaches to Grafting Silicones to Cellulose and Starch*, 28th Organosilicon Symposium, Gainesville, Florida, April 1995, Abstract P-10.
32. C. Le Roux, H. Yang, S. Wenzel and M. A. Brook, *Using "Anhydrous" Hydrolysis to Favor Formation of Hexamethylcyclotrisiloxane from Dimethyldichlorosilane*, 28th Organosilicon Symposium, Gainesville, Florida, April 1995, Abstract B-18.
31. V. Bartzoka, M. A. Brook, D. Valentini^{*} and Mark R. McDermott^y, *Surface Interactions Between Proteins and Silicon Polymers: Physical and Covalent Adhesion*, 28th Organosilicon Symposium, Gainesville, Florida, April 1995, Abstract P-6.
30. M.A. Brook and T. Stefanac, *Silane Radical Polymerization Initiators; Functionalized Homopolymers and Block Copolymers*, IIIrd International Symposium on Radical Copolymers, Lyon, France, April 1994, Abstract P-52.
29. H. Ketelson, R.H. Pelton and M.A. Brook, *Polyolefin and Silicone Sterically Stabilized Colloids*, IIIrd International Symposium on Radical Copolymers, Lyon, France, April 1994, Abstract, Abstract 148.
28. M.A. Brook and T. Stefanac, *Silane Radical Polymerization Initiators; Functionalized Homopolymers and Block Copolymers*, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract B-29.
27. M.A. Brook, G. McGibbon and C. Roos, *Towards Silanones*, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-54.
26. R. Ruffolo, L. Girard, H. Gupta, A. Decken, M.A. Brook and M.J. McGlinchey, *Towards Metal Stabilized Silicon Cations*, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-57.
25. M.A. Brook and M. Roth, *The substitution of Electrophiles in Polymeric Systems: Surprisingly Unreactive Vinylsilanes*, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-55.
24. H. Ketelson, M.A. Brook and R.H. Pelton, *Post-Grafting Silicone Polymers to Vinyl Modified Colloidal Silica Spheres: Switching from an Electrostatically Stabilized Dispersion to a Sterically Stabilized Dispersion*, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-30.
23. J.M. Dickson, M.A. Brook, C.K. Yeom, J. Jiang, H.K. Gupta, K. Rilling and B.J. Trushinski, *Development of crosslinked oligosilystyrene pervaporation membranes for the removal of chlorohydrocarbons from water*, International Congress on Membranes and Membrane Processes, (ICOM-93), Heidelberg, Germany, Sept. 1993, Abstract 5.11.
22. Jianxiong Jiang and Michael A. Brook, *The Redistribution Reactions Between Cyclic Silicones and Trichlorosilanes*, Canadian Society for Chemistry Conference, Sherbrooke, June 1993, Abstract 540 IN E3.

21. Courtney Henry and Michael A. Brook, *Electrophilic Addition Reactions Involving Organosilane π -Nucleophiles*, Canadian Society for Chemistry Conference, Sherbrooke, June 1993, Abstract 139 IN BSP.
20. M. A. Brook, *The β -effect: Modifying the Ligands on Silicon for Synthetic Control*, OMCOS 6, Utrecht, The Netherlands, August 1991, Abstract A-70.
19. G. A. McGibbon, M. A. Brook and J. K. Terlouw, *Investigation of β -Silicon Vinyl Carbenium Ions in the Gas Phase*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 857P.
18. C. Dallaire and M. A. Brook, *The Relative Magnitude of the β -effect of Silyl, Germyl and Stannyl Groups in the Stabilization of Vinyl Cations*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 702P.
17. C. Henry, R. Jueschke and M. A. Brook, *Stereocontrolled Addition Reactions to Carbon Electrophiles to Styrylsilanes*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 700P.
16. P. Modi, M. A. Brook and J.D. Dickson, *Silicon Functionalized Styrene Polymers: Cationic Control with the β -effect*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 461P.
15. M. A. Brook, D.K. Chau and W. Yu, *Electrophilic Cleavage Reactions of Alkoxyhydrosilanes: The Special Case of Tartaric Acid*, XXIV Organosilicon Symposium, El Paso, April 1991, Abstract 99.
14. R. H. Peltou, A. Osterroth and M. A. Brook, *Steric Stabilization of Colloidal Particles*, 73rd Canadian Chemical Conference, Halifax, July 1990, Abstract 741.
13. C. Dallaire and M. A. Brook, *Study of the Stabilization of Vinyl Cations (β -effect) by Group 14 Metals*, IX International Symposium on Organosilicon Chemistry, Edinburgh, Scotland, July 1990, Abstract 4.8.
12. M. A. Brook, R. Jueschke, W. Yu and A. Neuy, *Electrophilic Addition Reactions of β -Silylstyrenes: The Pursuit of a Stable β -Silyl Carbocation*, IX International Symposium on Organosilicon Chemistry, Edinburgh, Scotland, July 1990, Abstract 4.7.
11. Michael A. Brook and S. Müller, *The β -effect in Silyl Enol Ether Reactions: Trapping the Intermediate Siloxy Carbonium Ion*, XXIII Organosilicon Symposium, Midland, Michigan, April 1990, Abstract B4.
10. Michael A. Brook, *The β -effect: Changing the Ligands on Silicon*, 17th Annual Ontario-Quebec Physical Organic Minisymposium, Quebec, Nov. 1989.
9. Michael A. Brook, Peter Hülser and Thomas Sebastian, *Oligotrichlorosilylstyrenes: Highly Functionalized Silicone Precursors*, 25th Canadian High Polymer Symposium, Mississauga, Canada, Aug. 23-25, 1989.
8. Michael A. Brook, Mahmud A. Hadi and Axel Neuy, *An Examination of the β -Effect in an Addition Reaction with Different Ligands on Silicon*, XXII Organosilicon Symposium, Philadelphia, USA, April 1989, Abstract P-15.
7. Michael A. Brook, Elizabeth Jefferson and Thomas Sebastian, *Polytrichlorosilylstyrenes: Exploiting the β -Effect for Polymer Synthesis*, 3rd North American Chemical Congress, June 1988, Toronto, Canada, Abstract ORGN-50.

6. Michael A. Brook and Christina H. Kremers, *Glycol-Silicones: Polymeric Organic Reagents?*, XXI Organosilicon Symposium, June 1988, Montreal, Canada, Abstract P-20.
5. Michael A. Brook, *Trihalosilylstyrenes: What happened to the α - and β -Effects*, 15th Annual Physical-Organic Minisymposium, Nov. 1987, Mississauga, Canada.
4. Michael A. Brook and Peter Hülser, *Silyl Triflates: Activators for Carbon-Carbon Bond Formation*, Chemical Institute of Canada Conference, Quebec, June 1987, Abstract ORG-42-D2.
3. Nick Henry Werstiuk, Michael A. Brook and Peter Hülser, *Thermolysis of Silyl Esters: An Ultraviolet Photoelectron Study*, 14th Annual Ontario-Quebec Physical Organic Minisymposium, Nov. 1986, Toronto.
2. Michael A. Brook and Dieter Seebach, *Stabilized Cyclic Nitronates: Intermediates for More Complex Heterocycles*, 10th International Congress of Heterocyclic Chemistry, August 1985, Waterloo, Canada, Abstract G-5-54.
1. T.H. Chan and Michael A. Brook, *Some Uses of Trimethylchlorosilane in Organic Synthesis*, Chemical Institute of Canada Conference, July 1982, Toronto, Abstract OR-18-7.

Invited Lectures: at Companies

- | | | |
|----|--|------------|
| 39 | Wacker Chemie, Burghausen Germany | Jan. 2006 |
| | <i>Using Synthesis to Structure Interfaces: Making Silica and Silicones Biocompatible</i> | |
| 38 | Xerox (XRCC) | Feb. 2005 |
| | <i>Learning from Nature: Morphological Control of Silica under Mild Conditions</i> | |
| 37 | Vistikon, Jacksonville Florida | Dec. 2004 |
| | <i>Controlling biology at silicone interfaces: an integrated approach to ocular materials</i> | |
| 36 | AMO, Newport Beach, CA | March 2004 |
| | <i>Controlling biology at silicone interfaces: an integrated approach to ocular materials</i> | |
| 35 | Specialty Minerals, Allentown, PA | March 2004 |
| | <i>Protein-doped, controlled morphology silica monoliths and chelating silicones: Learning from nature</i> | |
| 34 | Air Products, Allentown, PA | March 2004 |
| | <i>Protein-doped, controlled morphology silica monoliths: Learning from nature</i> | |
| 33 | QLT, Vancouver | March 2004 |
| | <i>An Integrated Approach to New Ocular Materials</i> | |
| 32 | Novartis Cibavision, Atlanta Georgia | June 2003 |
| | <i>Stabilizing Proteins in Silica and Silicones</i> | |
| 31 | Alcon, Fort Worth | June 2003 |
| | <i>Stabilizing Proteins in Silica and Silicones</i> | |
| 30 | Dow Corning, Midland Michigan | Apr. 2002 |
| | <i>Controlling Enzyme Stability in Water-in-Silicone Oil Emulsions</i> | |
| 29 | Genencor, Palo Alto | Aug. 2001 |
| | <i>Silicone/protein interactions: Modifying hydrophobic/hydrophilic interactions to control both protein and interfacial stability</i> | |
| 28 | Sasol, Austin Texas | Aug. 2001 |

- An Introduction to Silanes and Silicones*
- 27 General Electric Corporate Research and Development, Waterford NY May 2001
Silicones at Biopolymers Interfaces: A Look at Beneficial and Not-So-Beneficial Fouling
 - 26 NPS Pharmaceuticals Mar. 2001
Silicone:Protein Conjugates: Emulsions that Stabilize Proteins Against Denaturation
 - 25 Alcon, Fort Worth, Texas Feb. 2001
Protein-Silicone Mixtures for Biological Cleaning Applications
 - 24 Glaxo Canada Feb. 2001
Silicone:protein conjugates: emulsions that stabilize proteins against denaturation.
 - 23 GE-Bayer, Leverkusen June 2000
Silicon at the Interface: New Surface Active Silanes and Silicones
 - 22 Goldschmidt, Essen June 2000
Silicon at the Interface: New Surface Active Silanes and Silicones
 - 21 Specialty Minerals, Allentown PA April 2000
Chelating Silicones
 - 20 CK Witco Corp. (Sistersville WV) Dec. 1999
Looking for New Hydrophilic Substrates to Bind to Silicones
 - 19 Michigan Molecular Institute, Midland MI Oct. 1999
Silicones at the Interface: What Do Biopolymers Offer
 - 18 General Electric, Waterford Oct. 1999
Silicones at the Interface: The Benefits of Combining Silicones with Biopolymers
 - 17 Unilever, Port Sunlight, UK Sept. 1998
Working with Silicones
 - 16 National Starch, New Jersey June 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones
 - 15 Brantford Chemical Inc. Dec. 1997
Using Silicon Chemistry in Drug Delivery: Prodrugs Based on Modified Silica and Oral Protein Delivery Using Silicones
 - 14 Unilever, UK, Dec. 1997
Surface Active Materials Based on Silanes, Silicones and Natural Polymers.
 - 13 Dow Corning Corp. Sept. 1997
Silicone-Organic Copolymers the Natural Way: An Exploration of Silicone- and Silane-Modified Biopolymers
 - 12 MacMillan Bloedel, Vancouver BC Sept. 1997
(Reversible) Modification of Biopolymers Using Silane, Silicone and Organic Coupling Agents.
 - 11 Eastman Chemical, Kingsport, Tennessee Aug. 1997
Wood-Plastic Composites: A Role for Organosilane and Silicone Chemistry
 - 10 Rhône Poulenc, Lyon, France Feb. 1997
Two Very Different Areas of Silicone Chemistry: Hydrosilsesquioxane-platinum catalysts and Silicone-biopolymer copolymers
 - 9 General Electric, Schenectady, NY Dec. 1996

Hard and soft siloxanes: hydrosilsequioxane: platinum catalysts and silicone: protein copolymers

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| 8 | 3M London, Ontario | Sept. 1996 |
| | <i>Sticking to Biopolymers: Using the Concept of Functional Group Protection in Polymer Adhesion</i> | |
| | Rhône Poulenc, Paris, France (2 lectures) | May 1996 |
| 7 | <i>Sterically Stabilized Silica Colloids</i> | |
| 6 | <i>Silicone-Protein Copolymers</i> | |
| 5 | Organon, Akzo, Oss, The Netherlands | April 1993 |
| | <i>Silicon as Mediator: Making the Drugs and Delivering Them to the Patient</i> | |
| 4 | Shell Research Amsterdam (KSLA) | July 1990 |
| 3 | Dow Corning Corporation (Midland, USA) | April 1990 |
| 2 | University of Toronto | April 1988 |
| 1 | Xerox Research Centre of Canada | Sept. 1988 |

Invited Lectures: at Universities

- | | | |
|----|--|-------------|
| 81 | Michael A. Brook, McMaster University Undergraduate Chemistry Society | March 2006. |
| | <i>Fighting the Imposter Syndrome as a Chemist,</i> | |
| 80 | Universite de Montpellier, II, France | Jan. 2006 |
| | <i>La silicone et la silice dans une monde biologique: le contrôle de l'interface</i> | |
| 79 | Brock University, Chemistry Department | Oct. 2004 |
| | <i>Controlling protein stability in silicones and silica: Synthesis of new biomaterials</i> | |
| 78 | University of Waterloo, Chemistry Department | Oct. 2004 |
| | <i>Controlling protein stability in silicones and silica: Synthesis of new biomaterials</i> | |
| 77 | McMaster University, BIMR Summer Research Program Weekly Seminar Series, June 2004 | |
| | <i>Compatibilizing proteins with silica and silicones (what do graduate students actually do?)</i> | |
| 76 | Institute of Chemistry, Chinese Academy of Sciences, Beijing | Nov. 2003 |
| | <i>Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein Structure</i> | |
| 75 | Qingdao University of Technology | Nov. 2003 |
| | <i>Stereocontrol Using Silyl Groups: Enantioselective Reductions and Claisen Rearrangements</i> | |
| 74 | Huazhong University of Science and Technology | Nov. 2003 |
| | <i>Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein Structure</i> | |
| 73 | Wuhan University of Technology | Nov. 2003 |
| | <i>Protein-Doped Mesoporous Silica for Drug Screening Applications</i> | |
| 72 | Nanjing University | Nov. 2003 |
| | <i>Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein Structure</i> | |
| 71 | UWEB (University of Washington Engineered Biomaterials), Seattle, | May 2003 |
| | <i>Stabilizing Proteins in Silica and Silicones</i> | |
| 70 | Ian Wark Research Institute, University of South Australia, Adelaide, South Australia | |

- Michael A. Brook, Frank LaRonde, Mustafa Mohamed and Forrest Li March 2003
Stereocontrol Using Silyl Groups: Enantioselective Reductions and Claisen Rearrangements
- 69 Ian Wark Research Institute, University of South Australia, Adelaide, South Australia
M. A. Brook, Dan Chen, Kui Guo, Zhang Zheng, John Brennan, and Paul Zelisko March 2003
Formation of Protein-Containing Controlled Pore Silica for Drug Discovery
- 68 Perspectives on Silicon (6 hours lectures during a 30 hour short course), Ian Wark Research Institute, University of South Australia, Adelaide, South Australia July 2002
- 67 Queensland University of Technology, Brisbane, Australia June 2002
Bringing Organic Chemistry to Silicon-based Interfaces
- 66 University of Sydney, Australia June 2002
The Passivation of Silica and Protein/Water Interfaces Using Silane Coupling Agents and Functional Silicones.
- 65 Flinders University, Adelaide, Australia June 2002
Stabilization of Water-in-Silicone Oil Emulsions: Surfactants Formed by the Interaction of Proteins/enzymes and Functionalized Silicones
- 64 University of South Australia, Adelaide, Australia June 2002
Preparing and Passivating Silica: Matching Surface Chemistry to Application
- 63 McMaster University: Undergraduate Chemistry Series March 2002
From Oral Vaccines to Breast Implants: What Happens When Proteins Meet Silicones?
- 62 Ecole Nationale Supérieure, Lyon, France Feb. 2002
Protéines chez soi: Dans les silicones et dans la silice (New homes for proteins in silicones and silica)
- 61 University of Dresden, Germany, Institute of Polymer Research Feb. 2002
The passivation of silica and silicone surfaces using silane coupling agents and proteins.
- 60 University of Toronto Feb. 2001
Silicone/protein interactions: Modifying hydrophobic/hydrophilic interactions to control both protein and interfacial stability
- 59 University of Windsor Sept. 2000
Exploiting Extracoordinate Silicon: Enantioselective Reductions and Aldol Reactions Catalyzed by Chiral Amines (and some Silicone-Protein Stuff)
- 58 Institut National des Sciences Appliquées de Lyon July 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés
- 57 Institut Charles Sadron, Université Louis Pasteur June 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés
- 56 Université de Bordeaux I May 2000
Combining Silicones and Biopolymers: Controlling the Interface (en français)
- 55 Ecole Normale Supérieure de Lyon May 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés
- 54 University of Twente May 2000

- Silicon at the Interface: New Surface Active Silanes and Silicones*
- 53 University of Amsterdam May 2000
Exploiting Extracoordinate Silicone: Enantioselective Reductions and Aldol Reactions Catalyzed by Chiral Amines
- 52 Kyoto University June 1999
Chiral Extracoordinate Hydrosilanes Derived from Bidentate Ligands: Enantioselective Reduction of Ketones
- 51 Kyoto Institute of Chemistry June 1999
Gifts From Nature: New Materials From Silicones and Biopolymers
- 50 Chinese University of Hong Kong May 1999
Gifts From Nature: New Materials From Silicones and Biopolymers
- 49 University of Hong Kong May 1999
Chiral Extracoordinate Silanes: Catalytic and Enantioselective Reduction
- 48 Hong Kong University of Science and Technology May 1999
Chiral Extracoordinate Silanes Derived From Histidine: Catalytic and Enantioselective Reduction
- 47 McMaster University President's Stewardship "Over the Ivy Wall" March 1999
Confusing Nature: What does Lemon Pledge have to do with Oral Vaccines?
- 46 Chemical Engineering, McMaster University Feb. 1999
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones
- 45 Brock University Feb. 1999
Stereoselective Reduction of Ketones by Histidine: Alkoxyasilane Complexes
- 44 Mount Allison University Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones
- 43 University of New Brunswick Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones
- 42 Acadia University Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones
- 41 Dalhousie University Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones
- 40 McMaster University Board of Governors Oct. 1998
Combining Silicones and Biopolymers: New Materials
- 39 Telemark University, Porsgrunn, Norway Feb. 1998
Silicone Degradation Mechanisms
- 38 Swedish Institute for Pulp and Paper, Stockholm and Swedish Institute For Surface Science, Stockholm Dec. 1997
Silane and Silicone Coupling Agent Chemistry: Are Biopolymer Surfaces Like Siliceous Surfaces?
- 37 University of Toronto, Faculty of Pharmacy, Oct. 1997

- Using Silicon Chemistry in Drug Delivery: Prodrugs Based on Modified Silica and Oral Protein Delivery Using Silicones*
- 36 University of British Columbia Sept. 1997
Modifying Biopolymers with Silanes and Silicones
- 35 Brockhouse Institute for Materials Science, McMaster University Jan. 1997
Hard and soft siloxanes: hydrosilsequioxane: platinum catalysts and silicone: protein copolymers
- 34 McMaster Undergraduate Chemistry Club Nov. 1996
Silicon in Biology
Organosilanes as Protecting Groups: Different Approaches to the Stabilization of Small Molecules, Polymers, Transition Metals and Surfaces
- Université Paul Sabatier, Toulouse, France (3 lectures) June 1996
- 33 *Organosilanes in an Inorganic World and Inorganic Silicon in an Organic World*
- 32 *What Happens When Silicon Meets Biology*
- 31 *Stabilized Group 14 Cations*
- Université de Bordeaux I, France, (3 lectures) May 1996
- 30 Universidad del Pais Vasco, San Sebastian, Spain June 1996
- 29 *Organosilanes in an Inorganic World and Inorganic Silicon in an Organic World*
- 28 *What Happens When Silicon Meets Biology*
- 27 *Stabilized Group 14 Cations*
- 26 Landbouw Universiteit Wageningen, Wageningen, Netherlands May 1996
Silicones at the Interface: Starch/Protein/Silicone Microparticles as Oral Vaccines
- 25 Université de Namur, Belgium May 1996
Stabilizing β -Cations and Protecting Transition Metals with Silicon
- 24 Rijks Universiteit Utrecht June 1995
Controlled Modification of Silica Surfaces: Polyolefin and Silicone Sterically Stabilized Silica Colloids
- 23 Queen's University Sept. 1994
Silicone at the Interface: What happens when it's found in unusual places
- 22 McMaster University Oct. 1993
Silicon Mediated Cope-type Cyclizations OR After one year in the Netherlands, what does Fokkje (fok-ya) really mean?
- 21 University of Western Ontario Sept. 1993
Silicon Mediated Cope-type Cyclizations
- 20 University of Montpellier May 1993
Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences
- 19 University of Toulouse May 1993
Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences
- 18 University of Bordeaux May 1993
Silicon as Mediator: Making the Drugs and Delivering Them to the Patient
- 17 Free University of Amsterdam March 1993
Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences
- 16 Open University, Milton Keynes, England March 1993
A Silicon Transplant: From the β -effect to Polymers (focus on silicon extracoordination)

15	University of Sussex	March 1993
	<i>A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation)</i>	
14	University of Utrecht	Feb. 1993
	<i>Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences</i>	
13	University of Groningen	Feb. 1993
	<i>Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences</i>	
12	University of Amsterdam	Jan. 1993
	<i>A Silicon Transplant: From the β-effect to Polymers (focus on synthesis)</i>	
11	Technische Hochschule Darmstadt	Jan. 1993
	<i>A Silicon Transplant: From the β-effect to Polymers (focus on β-effect)</i>	
10	Universität Kaiserslautern	Jan. 1993
	<i>A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation)</i>	
9	ETH-Zürich (Seebach Group Meeting)	Feb. 1993
	<i>A Silicon Transplant: From the β-effect to Polymers</i>	
	Centre of Advanced Scientific Investigation (CINVESTAV) Mexico City, (2 lectures)	March 1992
	<i>8Polymeric Materials Derived from the β-Effect</i>	
	<i>7The β-effect: Modifying the Ligands on Silicon</i>	
6	Guelph University	March 1992
	<i>A Silicon Transplant: From the β-effect to Polymers</i>	
5	SUNY Binghamton (New York)	March 1991
4	Universiteit van Amsterdam	July 1990
3	McMaster University (Peacock Lecture Series)	Oct. 1989
2	University of Western Ontario	Oct. 1988
1	Université de Montréal	Dec. 1988

Courses Taught

2005-06		Approximate
Enrolment		
Chem 756	Silicon Chemistry	8
Chem 20A3	Organic Synthesis	380
Total enrolment is about 650 – 2 sections		
Chem 4PP3	Polymer Chemistry	22

2004-05		Approximate
Enrolment		
Killam Research Fellowship (until Jan. 2005)		
Chem 4G06	(Course coordinator)	15
Research supervisor		
1		
Chem 1AA3		350

2003-04		Approximate
Enrolment		

Killam Research Fellowship		
Chem 4G06	(Course co-coordinator)	22
Research supervisor		
2		

2002-03		Approximate
Enrolment		
Chem 760	Organic Synthesis	8
Chem 2BA3	Organic Synthesis	42
Chem 4G06	(Course coordinator)	8
(on Killam Fellowship starting Jan. 2003)		

2001-02		Approximate
Enrolment		
Chem 2L03	Organic Laboratory	42
Chem 2BA3	Organic Synthesis	42
Chem 1AA3	Introductory Chemistry (3 units)	225

2000-01		Approximate
Enrolment		
Chem 760	Organic Synthesis	8
Chem 756	Organosilicon Chemistry	6
Chem 2L03	Organic Laboratory	18
Chem 4G6	Supervisor, Undergraduate Thesis	1
Chem 2BA3	Organic Synthesis	18
Chem 1AA3	Introductory Chemistry (3 units)	275

1999-2000	On sabbatical	
Chem 4G6	Supervisor, Undergraduate Thesis	2

1998-99		
Chem 760	Organic Synthesis	4
Chem 4G6	Supervisor, Undergraduate Thesis	2.5
Chem 4D3	Organic Synthesis	16
Chem 1AA3	Introductory Chemistry (3 units)	400

1997-98		
Chem 730a	Organic Synthesis	7
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 4D3	Organic Synthesis	7
Chem 1AA3	Introductory Chemistry (3 units)	400

1996-97		
Chem 730a	Organic Synthesis	7
Chem 4G6	Supervisor, Undergraduate Thesis	2

Chem 4D3	Organic Synthesis	19
Chem 1AA3	Introductory Chemistry (3 units)	400
1995-96		
Chem 731c	Organosilicon Chemistry	10
Chem 4G6	Supervisor, Undergraduate Thesis	3
Chem 4D3	Organic Synthesis	12
Chem 1AA3	Introductory Chemistry (3 units)	400
TSM 4A2	Theme School on New Materials (2 units, Overload), Seminar Course	25
1994-95		
Chem 730a	Organic Synthesis	12
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 4D3	Organic Synthesis	12
Chem 1A6	Introductory Chemistry (3 units)	400
1993-94		
Chem 720a, 721	Molecular Modelling -	1
a special double module offered to a Masters of Teaching student, overload (unpaid)		
Chem 730a	Organic Synthesis	12
Chem 731c	Organosilicon Chemistry, Overload	10
Chem 1A6	Introductory Chemistry (3 units)	400
Chem 4G6	Supervisor, Undergraduate Thesis	3
Chem 4D3	Organic Synthesis	15
1992-93 (University of Amsterdam, sabbatical leave)		
Graduate Course	Fundamentals of Organosilicon Chemistry	6
1991-92		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 730d	Transition Metals/Organic Synthesis	8
Chem 2D3	Organic Chemistry, Overload	125
Chem 3D3	Organic Chemistry	40
1990-91		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 730a	Organic Synthesis	12
Chem 2D3	Organic Chemistry, Overload	125
Chem 721	Organic Colloquium (Organizer)	20
Chem 3D3	Organic Chemistry	40
1989-90		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 721	Organic Colloquium (Organizer)	20

Chem 3D3	Organic Chemistry	50
Chem 731c	Organosilicon Chemistry	40
1988-89		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 720b	Molecular modelling	10
Chem 3D3	Organic Chemistry	40
1987-88		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 720a	Computers in organic chemistry	12
Chem 730a	Synthesis	12
1986-88		
Chem 206	Polymer Section	35
1986-87		
Chem 705	Computers in organic chemistry	12
Chem 4G6	Supervisor, Undergraduate Thesis	2
1985-86		
Chem 208	Polymer Section	35
Chem 705	Synthesis, 4 lectures	20
Chem 4G6	Supervisor, Undergraduate Thesis	1

Thesis Committees

External Referee

<u>Student</u>	<u>Supervisor</u>	<u>Institution</u>	<u>Degree</u>	<u>Year</u>
Alexandra Bartole 2005	Dr. I. Manners	University of Toronto	Ph.D.	
Jessie Zhang 2005	Dr. R. Kluger	University of Toronto	Ph.D.	
Nicola Lake 2004	Dr. J. Ralston	Ian Wark Institute, University of South Australia, Adelaide	Ph.D.	
Claire Minard-Basquin 2000	Dr. C. Chaix	École Normale Supérieure	Ph.D.	
Sandjeevi-Ranganathan, 1998	Dr. C. Pichot S. Dr. R. Whitney, Dr. W. Baker	Lyon Queen's University	Ph.D.	
Matuana-Molanda, L. 1997	Dr. J. Balatinecz	University of Toronto	Ph.D.	

Vlad, F.-I. 1997	Dr. A. Rudin	University of Waterloo	Ph.D.
Jihai Ma 1996	Dr. T. Tidwell	University of Toronto	Ph.D.
Andrea Dalacu 1994	Dr. M. F. Richardson	Brock University	M.Sc.
Umesh R. Parshotam 1993	Dr. Kim Baines	University of Western Ontario	Ph.D.
Flores Rutjes 1993	Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
Lucy Lolkema 1993	Prof. Nico Speckamp Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
Wim Jan Koot 1993	Prof. Nico Speckamp Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
Louis Plamondon 1988	Prof. Nico Speckamp Dr. J. Wuest	Université de Montréal	Ph.D.
Peter Tai Wah Cheng 1988	Dr. S. MacLean	University of Toronto	Ph.D.

McMaster

Student	Supervisor	Degree	Year
Greg Bahun	Dr. A. Adronov		Ph.D.
Xiangchun Yin	Dr. H. Stover		Ph.D.
Tina Guenther	Dr. J. Valliant		Ph.D.
Adrienne Pedrich	Dr. P. Harrison		Ph.D.
John Kaldis	Dr. M. J. McGlinchey		Ph.D.
Ju Zhang	Dr. R. H. Pelton		Ph.D.
Rahime Benhabbour	Dr. A. Adronov		Ph.D.
Sreedhar Cheekoori	Dr. J. McNulty		M.Sc.
Ken Rilling 2005	Dr. J.M. Dickson		Ph.D.
Travis Besanger 2005	Dr. J. Brennan		Ph.D.
Yaling Xu 2005	Dr. R. H. Pelton		Ph.D.
Sanela Martic 2005	Dr. M. Brook		M.Sc.

An Investigative Study Of Silicon-Based Materials as Alternative Matrices for Maldi-TOF Applications

X. Sui 2005	Dr. J. D. Brennan	M.Sc.
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Bola Sogbein 2005	Dr. John Valliant	Ph.D.
Ilena Dumbrava 2005	Dr. W. Leigh	M.Sc.
Amro Ragheb 2005	Dr. M. A. Brook	Ph.D.
<i>Controlling Protein-Silicone Interactions by the Modification of Silicone Elastomers with Poly(ethylene oxide)</i>		
Paul Zelisko 2004	Dr. M. A. Brook	Ph.D.
<i>The interaction of proteins with functionalized silicones</i>		
Masaaki Amako 2004	Dr. M. A. Brook	Ph.D.
<i>Synergy of Polydimethylsiloxanes and Late Transition Metal Complexes</i>		
Tom Owens 2004	Dr. W. J. Leigh	Ph.D.
Jiahong Tan 2004	Dr. J. Brash	Ph.D.
Jacques Archambeault 2002	Dr. J. Brash	Ph.D.
Maggie Wang 2002	Dr. R. F. Childs	M.Sc.
Guodong Zheng 2002	Dr. H. D. H. Stover	Ph.D.
Xiaoashong Lu 2001	Dr. J. Warkentin	Ph.D.
Mustafa Mohamed 2001	Dr. M. A. Brook	Ph.D.
Sonya Balduzzi 2001	Dr. Michael Brook	Ph.D.
<i>Reactive Silyl Protecting Groups</i>		
Brandi Meeks 2001	Dr. H. Sheardown	M.Sc.
Ahmed Alzamly withdrawn	Dr. M. A. Brook	Ph.D.-
Frank J. LaRonde 2000	Dr. M. A. Brook	Ph.D.
<i>C₂-symmetric ligands</i>		
Sudarshi Regismond 2000	Dr. F. Winnik	Ph.D.
Rodica Stan 1999	Dr. Michael Brook	Ph.D.
<i>Synthesis of Novel Silicones and Silanes for Interface Control</i>		
Vasiliki Bartzoka 1999	Dr. Michael Brook	Ph.D.

<i>Silicone Protein Interactions</i>		
Mark Stradiotto	Dr. Michael Brook	Ph.D.
1999	(co-supervised with with M. J. McGlinchey)	
<i>The Dynamics and Reactivity of η^1-Indenyl Complexes</i>		
Christine Braderic	Dr. W.J. Leigh	Ph.D.
1998		
Karen Moffat	Dr. H. Stöver	Ph.D.
1998		
Suzie Rigby	Dr. M. McGlinchey	Ph.D.
1997		
Stephen Urquhart	Dr. A. Hitchcock	Ph.D.
1997		
Paul Charpentier <i>Metallocene-catalyzed semi-batch and continuous polymerization of ethylene</i>		
	Dr. A. Hamielec	Ph.D.
1997		
	Dr. M. A. Brook	
Ralph Ruffolo <i>Silanes and Allylsilanes as Possible Precursors for Transition Metal Metal-stabilized Silylium Ions</i>		
1997	Dr. M. A. Brook	Ph.D.
	Dr. M.J. McGlinchey	
Howard Ketelson	Dr. M. A. Brook	Ph.D.
1996		
	Dr. R. H. Pelton	
<i>The Colloidal Stability and Surface Chemistry of Stöber Silica</i>		
David Valentini	Dr. M. A. Brook	M.Sc.
1996		
<i>Silicon-Modified Starch Composites</i>		
Courtney Henry	Dr. M. A. Brook	Ph.D.
1994		
<i>Exploring the Synthetic Utility of Vinyl/dichlorosilanes and Vinylarylsilanes</i>		
Graham McGibbon	Dr. J. K Terlouw	Ph.D.
1994		
Tom Stefanac	Dr. M. A. Brook	M.Sc.
1994		
<i>Silane Based Radical Polymerization: Functionalized Homopolymers and Copolymers</i>		
Mike Roth	Dr. M. A. Brook	M.Sc.
1994		
<i>Controlled Formation of New Si-based Materials</i>		
Sengen Sun	Dr. P. Harrison	Ph.D.
1994		

Kai Li 1994	Dr. H. D. H. Stöver	Ph.D.
Carol Dallaire 1992	Dr. M. A. Brook	Ph.D.
<i>Study of 1-Methylated-2-trimethylsilyl Cations: An Examination of the β-Effect for Silyl,</i>		
<i>Germyl and Stannyl Groups</i>		
Andrea Osterroth 1991	Dr. M. A. Brook	M.Sc.
<i>Poly(methyl methacrylate) Sterically Stabilized by Silicone</i>		
Weifeng Yu 1991	Dr. R.H. Pelton Dr. M. A. Brook	M.Sc.
<i>The Roles of Ligands on Silicon</i>		
Thomas Sebastian 1990	Dr. M. A. Brook	M.Sc.
<i>Trichlorosilylstyrene Oligomers</i>		
Defense Only		
Ed Ng 2005	Dr. H. Jain, Business	Ph.D.
Young-Min Kim 2005	Dr. J. MacGregor, Chem. Eng.	Ph.D.
Damian Jankowicz (Chair) 2004	Dr. S. Becker, Psychology	Ph. D.
Michelle Vosburgh (Chair) 2004	Dr. J. Weaver, History	Ph. D.
Beata Gajewski (Chair) 2004	Dr. M. Jordana, Medical Sciences	Ph.D.
Tim Jacobs (Chair) 2003	Dr. J. Ferns, English	Ph.D.
Lina Liu 2003	Dr. H. Sheardown, Chem. Eng.	M.Sc.
Abhaya Kulkarni 2003	Dr. M. Boyle	Ph.D.
Millman, J. (Chair) 2003	Dr. D. Andrews	Ph.D.
Pauli Kavalakatt M.Sc. 2002	Dr. H. D. H. Stöver, Chem.	
Youqing Shen 2001	Dr. S. Zhu, Chem. Eng.	Ph.D.
Nekmohamed Manji Ph.D. 2001	Dr. C. Nahmias, Med. Phys.	
Linda Li M.Sc. 2001	Dr. R. Pelton, Chem. Eng.	

Iva Matkovic 2001	Dr. K. Dunbabin, History	Ph.D.
Bruce Wilson 2001	Dr. B. Baetz, Civil Eng.	Ph.D.
Brandi Meeks 2001	Dr. H. Sheardown, Chem. Eng.	M.Sc.
Leslie Ritchie 2000	English	Ph.D.
Stevens, Ronald (Chair) 2000	Dr. Weitz, Med. Sci.	Ph.D.
Downey, Jeff 2000	Dr. H. Stöver,	Ph.D.
Martin, W. 1999	Dr. A. Hrymak	M.Sc.
MackKay, Geoff (Chair) 1999	Dr. G. Wright,	Ph.D.
Arida, F. (Chair) 1998	Dr. M. Elbastawi, Mech. Eng.	Ph.D.
Marriott, Michael (Chair) Ph.D.	Dr. B. Milliken, Psychology 1998	
Wu Chen, Iris (Chair) 1998	Dr. M. Blajchman, Medical Sciences	Ph.D.
Barker, S. 1997	Dr. G. Purdy, Mat. Sci. & Eng.	Ph.D.
Wauben, I. 1997	Dr. S. Atkinson, Nutrition	Ph.D.
Marc Webster 1996	Dr. Muller, Biology	Ph.D.
Hua Guo 1995	Dr. A. Hamielec	Ph.D.
Hui Teng Er 1995	Dr. J. Warkentin	M.Sc.
Naomi Laing Ph.D.	Dr. W. Chan, Biochemistry 1994	
Darryl Scott Pickering 1992	Dr. L. P. Niles, Neurosciences	Ph.D.
Greg Sluggett 1993	Dr. W. J. Leigh	Ph.D.
Nien Nguyen 1991	Dr. W. J. Leigh	M.Sc.
William Mills 1990	Dr. B. E. McCarry	M.Sc.
J. Paul Santerre 1990	Dr. J. Brash, Chemical Engineering	Ph.D.

Charles Younger 1990	Dr. R.A. Bell	M.Sc.
William Gunn withdrawn	Dr. N.H. Werstiuk	Ph.D.
Lynn M. Cameron 1990	Dr. D.B. MacLean	M.Sc.
Michel B.M. Mangion 1990	Dr. G.P. Johari, Materials Science	Ph.D.
Richard Perrier 1989	Dr. M. J. McGlinchey	Ph.D.
J. Douglas McCallion 1986	Dr. J. Warkentin	M.Sc.

Committee and Association Activity

McMaster Committees	Position	Year
Dean's Advisory Committee	Member	2005
Science/Engineering Promotion/Tenure Committee	Member	2005-
2008		
Teaching and Learning Grants Assessment Committee	Member	2005
Intellectual Property Board	Member	1998-
2003		
Selection Committee, Associate Dean of Science	Member	2002
Faculty of Science Undergraduate Curriculum and Calendar	Member	1998,
2000-01		
Health Sciences Admissions Committee	Member	1998
McMaster Patent Board	Member	1996-98
President's Task Force on Support of Research at McMaster	Member	1996
Selection Committee, Dean of Science	Member	1995
Dean's Advisory Committee on Computing	Member	1994-96
Faculty Health Sciences Graduate Admissions/Study Committee	Member	
1995-98		
Graduate Curriculum and Policy Committee	Member	1994-7
Salary Anomaly Adjustment Committee Faculty of Science	Member	1991
Graduate Reviewing Committee Faculty of Science	Member	1990-92
Hiring Committee, CIS Science Coordinator	Member	1989
Ad Hoc Committee on Research and Senior	Member	1989
Undergraduate Computing Research Needs		
McMaster-IBM Cooperative Project	Member	1988-89
Departmental Committees		
Departmental Advisory Committee	Member	2005-
2006		
Nanomaterials Committee (CFI)	CoChair	2005
Undergraduate Reviewing Committee	Member	2005-06
Implementation of CHEM3LI3	Member	2003

Departmental Advisory Committee	Member	2001-
2002		
Computing Facility Committee	Member	2001-
2002		
Accreditation Committee	CoChair	2001-
2002		
Undergraduate Curriculum and Calendar Committee	Chair	2000-02
Freshman Committee	Member	2000-01
Graduate Curriculum Committee	Member	2000-01
Undergraduate Curriculum and Calendar Committee	Chair	1998
Year One Frosh Week (gave lecture)		1998
Chemistry Computer Committee	Member	1998
Organic Comprehensives Coordinator	Chair	1996-98
Teaching Associates Coordinator	Chair	1996-97
Chemistry Chair Selection Committee	Member	1995
Departmental Advisory/P&T Committee	Member	1994-96
Departmental Seminars	Chair	1993-96
X-ray Facility Users Committee	Member	1993-94
Graduate Curriculum Committee	Member	1993-94
Comprehensive Exam Coordinator	Chair	1992
Facilities Committee	Member	1991-92
Departmental Advisory Committee	Member	1989-93
Departmental Computer Users Committee	Member	1991
X-ray Facility Users Committee	Member	1991-92
Selection of X-Ray Facility Manager	Member	1990-91
Graduate Recruiting	Chair	1987-90
Graduate Reviewing	Chair	1987-92
IBM Submission for Masters in Computer Chemistry	Member	1986-88
Graduate Curriculum	Member	1986-87
Undergraduate CIC Student Advisor	Chair	1986-88
Chemistry Club Faculty Advisor	Chair	1986-87
Safety Committee	Member	1985-86
Facilities Committee	Member	1985-87

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